

# GILL

*planned lighting*



**GILL GLASS and FIXTURE COMPANY**

established 1876

**PHILADELPHIA**



IT IS OUR PURPOSE:-

*to produce the best possible lighting  
equipment — engineered according to  
good lighting practice — at a price  
the customer can afford to pay.*

**Gill Glass & Fixture Company**

*C. A. Gill,*  
**President**







### **Material and Finish**

MEMBER, FLEUR-O-LIER MANUFACTURERS. LUMINAIRES ALREADY CERTIFIED ARE SO INDICATED BY PROPER LABEL AS ILLUSTRATED.

ALL LOUVER ASSEMBLIES ARE FABRICATED OF 20 GAUGE BONDERIZED STEEL FINISHED IN A SEMI-FLAT HIGH TEMPERATURE "BAKED-ON" WHITE ENAMEL.

ALL END PLATES, BODIES—WITH THE EXCEPTION OF THE No. 324 BODY WHICH IS 20 GAUGE—TROFFERS, REFLECTORS AND PARTS ARE FORMED AND DIE STAMPED OF 18 GAUGE BONDERIZED STEEL, FINISHED WITH HIGH TEMPERATURE "BAKED-ON" WHITE ENAMEL.

ALL CURVED GLASS SIDE REFLECTORS HAVE FUSED WHITE INNER REFLECTING SURFACES.

### **I.B.E.W.**

UNION WIRED BY INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS.

### **Ballasts**

FIXTURES ARE FURNISHED WITH HIGH POWER FACTOR TU-LAMP OR THREE-LAMP BALLASTS.

### **Maintenance**

ALL LOUVER ASSEMBLIES ARE DOUBLE HINGED TO BE SWUNG DOWN FROM EITHER SIDE OR REMOVED ENTIRELY.

ALL GLASS OR METAL SIDE REFLECTORS ON THE No. 324-No. 344 SERIES CAN BE REMOVED FROM THE TOP OR BOTTOM OF THE LUMINAIRE.

ALL STARTERS IN THE No. 324-No. 344 SERIES ARE LOCATED IN THE TOP OF THE WIRING CHANNEL — FOR SURFACE MOUNTING THESE STARTER SOCKETS CAN BE REVERSED SO THAT THE STARTERS ARE REMOVABLE FROM BELOW.

### **U. L.**

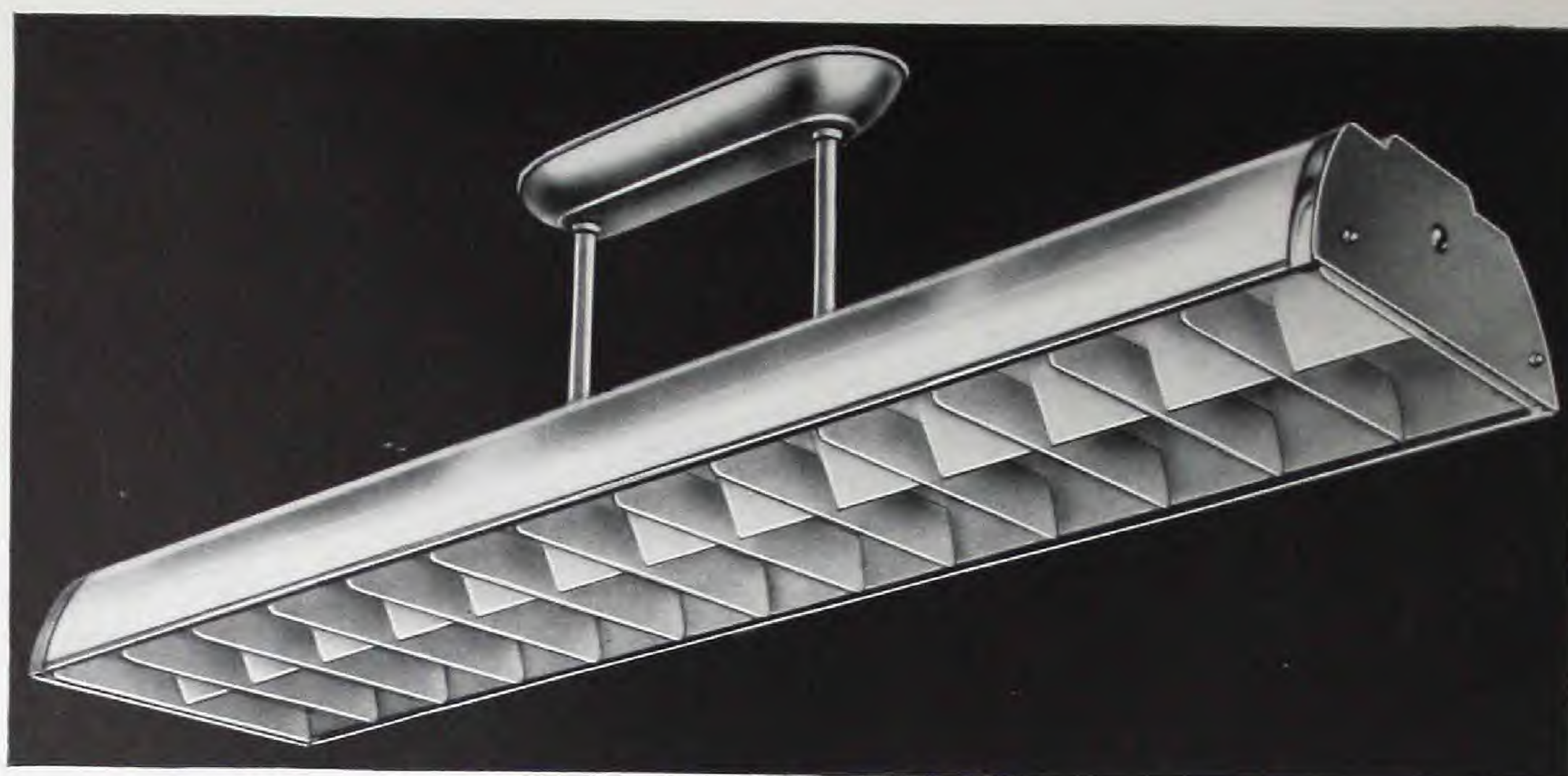
UNDERWRITERS LABORATORIES APPROVED.



MEMBER, COMMERCIAL & INDUSTRIAL LIGHTING DIVISION OF NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.

12 91-32847-15A





## Catalog No. 324

(with Catalog No. 2 Twin-Stem Hanger)

A softly luminous direct-indirect pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 2-40 watt fluorescent lamps.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Equipped with FS 4 starters.
- Width 12½"—Depth 4¾"—Length 48".
- Net weight 25 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

### UTILIZATION FACTORS FOR CAT. NO. 324 TWO 40-WATT FLUORESCENT LUMINAIRE

CEILING		75%			50%			30%	
WALLS		50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX		C O E F F I C I E N T O F U T I L I Z A T I O N							
J.	0.6	0.29	0.25	0.24	0.25	0.23	0.22	0.22	0.20
I.	0.8	0.35	0.32	0.30	0.31	0.29	0.27	0.26	0.24
H.	1.0	0.39	0.36	0.34	0.34	0.32	0.30	0.29	0.27
G.	1.25	0.42	0.40	0.37	0.37	0.35	0.33	0.31	0.30
F.	1.5	0.45	0.42	0.39	0.39	0.37	0.35	0.33	0.31
E.	2.0	0.49	0.46	0.44	0.43	0.40	0.38	0.36	0.34
D.	2.5	0.53	0.49	0.47	0.45	0.43	0.41	0.38	0.36
C.	3.0	0.55	0.52	0.49	0.47	0.44	0.42	0.39	0.37
B.	4.0	0.58	0.55	0.52	0.49	0.47	0.45	0.41	0.40
A.	5.0	0.59	0.57	0.55	0.51	0.48	0.47	0.41	0.41

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70



### ELECTRICAL TESTING LABORATORIES, INC. NEW YORK, N. Y.

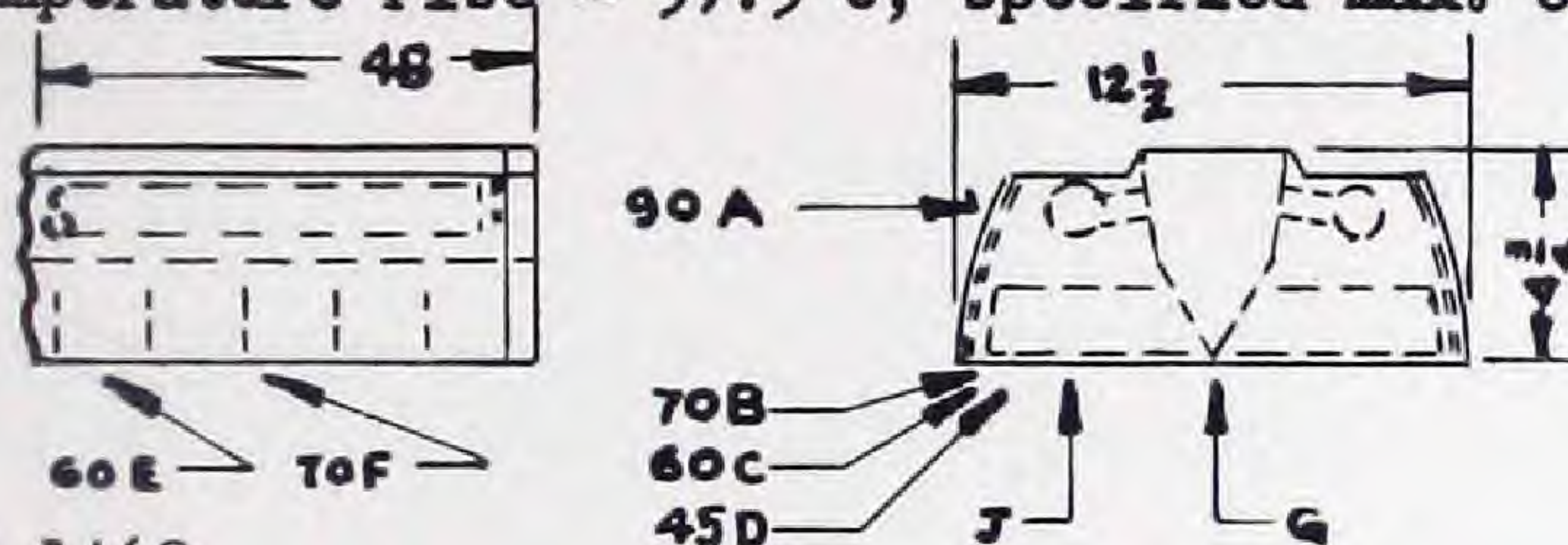
REPORT NO. 324352

ORDER NO. 16522-L

PLATE NO. 54434

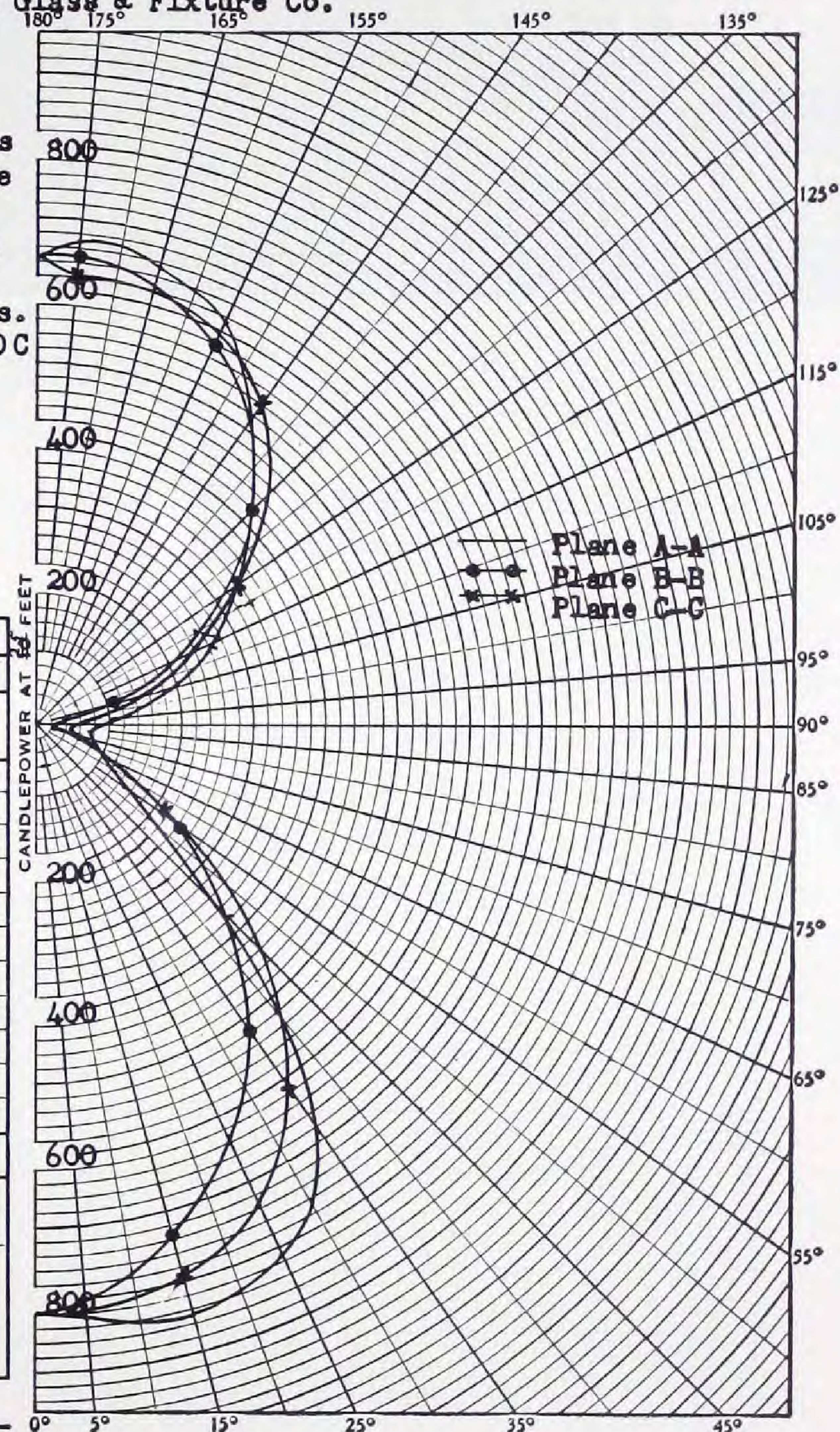
#### CANDLEPOWER DISTRIBUTION CAT. NO. 324 SUSPENSION-MOUNTED FLUORESCENT LUMINAIRE\* TYPE - GENERAL DIFFUSE Tested under Fleur-O-Lier Specifications Rendered to Gill Glass & Fixture Co.

Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens;  
T-12 White Fluorescent.  
Unit - Synthetic enamelled metal housing and cross  
louvers; reflectance 0.82; glass side panel white  
ceramic coated inside.  
Test - Candlepower distribution in three vertical  
planes intersecting in the center of the unit;  
A-A normal, B-B parallel and C-C 45° to the tubes.  
Max. temperature rise - 59.5 C; specified max. 65.0 C



\*ETL No. 1462

LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° IEN.	650		90° HOR.	55.0	
175°	640	61	85°	49.9	55
165°	630	178	75°	70.0	74
155°	595	275	65°	110	109
145°	530	333	55°	206	185
135°	442	342	45°	411	318
125°	336	302	35°	610	383
115°	236	234	25°	725	336
105°	185	196	15°	795	225
95°	80.0	87	5°	815	77
			0° NADIR	815	
LIGHT FLUX VALUES					
ZONE	LUMENS		PER CENT TOTAL LUMENS BARE LAMP	PER CENT LIGHT OUTPUT	
	LAMP	LUMINAIRE			
0°-60°		1524	33.0	82.0	
0°-90°		1762	38.5		
90°-180°		2008	43.5		
0°-180°	4600	3770	82.0		
LUMINAIRE BRIGHTNESS					
0°-40°		1021	22.0		

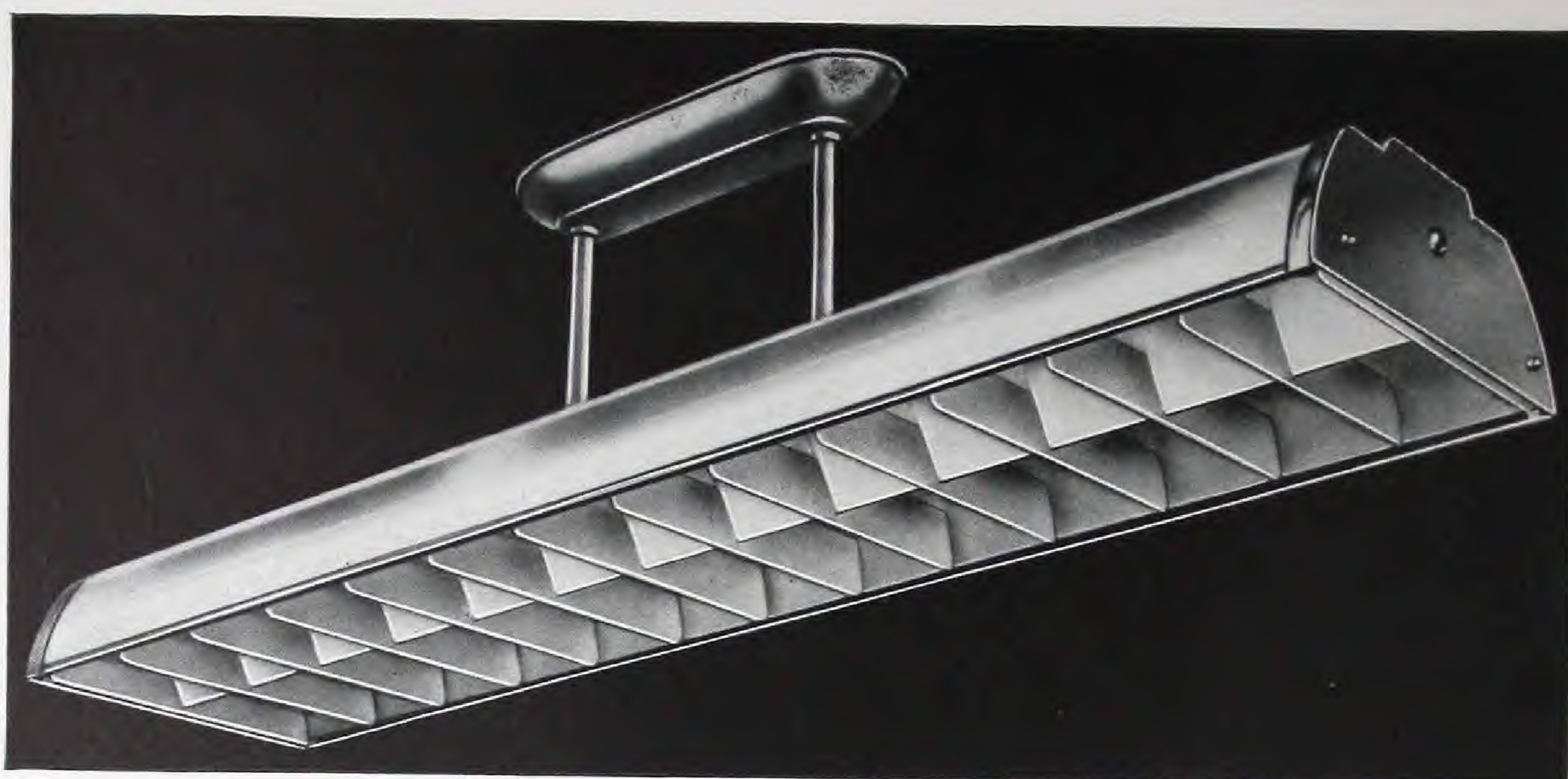


LOCATIONS	A	B	C	D	E	F	G	H	I	J	K	L	M
CP. PER SQ. IN.	1.1	0.4	0.5	2.1	0.7	0.8	0.1	-	-	4.2	-	-	-
TESTED BY	72												
PLOTTED BY	C R												
COMPUTED BY	D M												
CHECKED BY	Sc												
ISSUED	February 10, 1948												

APPROVED BY *William Smith*  
ENGINEER IN CHARGE OF PHOTOMETRY

*Caroline E. Horn*  
IN CHARGE OF TEST





### Catalog No. 324-M (with Catalog No. 2 Twin-Stem Hanger)

A direct-indirect, pendant luminaire with curved metal side reflectors, for use in Schoolrooms, Offices and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 2-40 watt fluorescent lamps.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Equipped with FS-4 starters.
- Width 12½" —Depth 4¾" —Length 48".
- Net weight 25 lbs. (less Hanger). Hangers shown on Page 32.
- Top reflector plates are available—see page 34.

#### UTILIZATION FACTORS FOR CAT. NO. 324M TWO 40-WATT FLUORESCENT LUMINAIRE

CEILING	75%			50%			30%	
	50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX	C O E F F I C I E N T O F U T I L I Z A T I O N							
J. 0.6	0.31	0.27	0.26	0.27	0.26	0.24	0.24	0.22
I. 0.8	0.36	0.34	0.32	0.33	0.31	0.30	0.29	0.27
H. 1.0	0.40	0.38	0.37	0.36	0.34	0.34	0.32	0.30
G. 1.25	0.44	0.42	0.39	0.39	0.37	0.36	0.34	0.33
F. 1.5	0.47	0.44	0.41	0.41	0.39	0.38	0.36	0.35
E. 2.0	0.50	0.47	0.45	0.44	0.42	0.41	0.38	0.37
D. 2.5	0.54	0.50	0.48	0.47	0.45	0.43	0.40	0.39
C. 3.0	0.55	0.53	0.50	0.48	0.46	0.45	0.41	0.40
B. 4.0	0.58	0.55	0.53	0.50	0.48	0.47	0.43	0.42
A. 5.0	0.59	0.57	0.55	0.52	0.50	0.48	0.44	0.43

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70



### REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330424

Order No. 19249-L

Plate No. 55635

Date March 3, 1949

CANDLEPOWER DISTRIBUTION  
CAT. NO. 324M PENDANT-MOUNTED FLUORESCENT LUMINAIRE\*  
TYPE - G-30-20-1-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

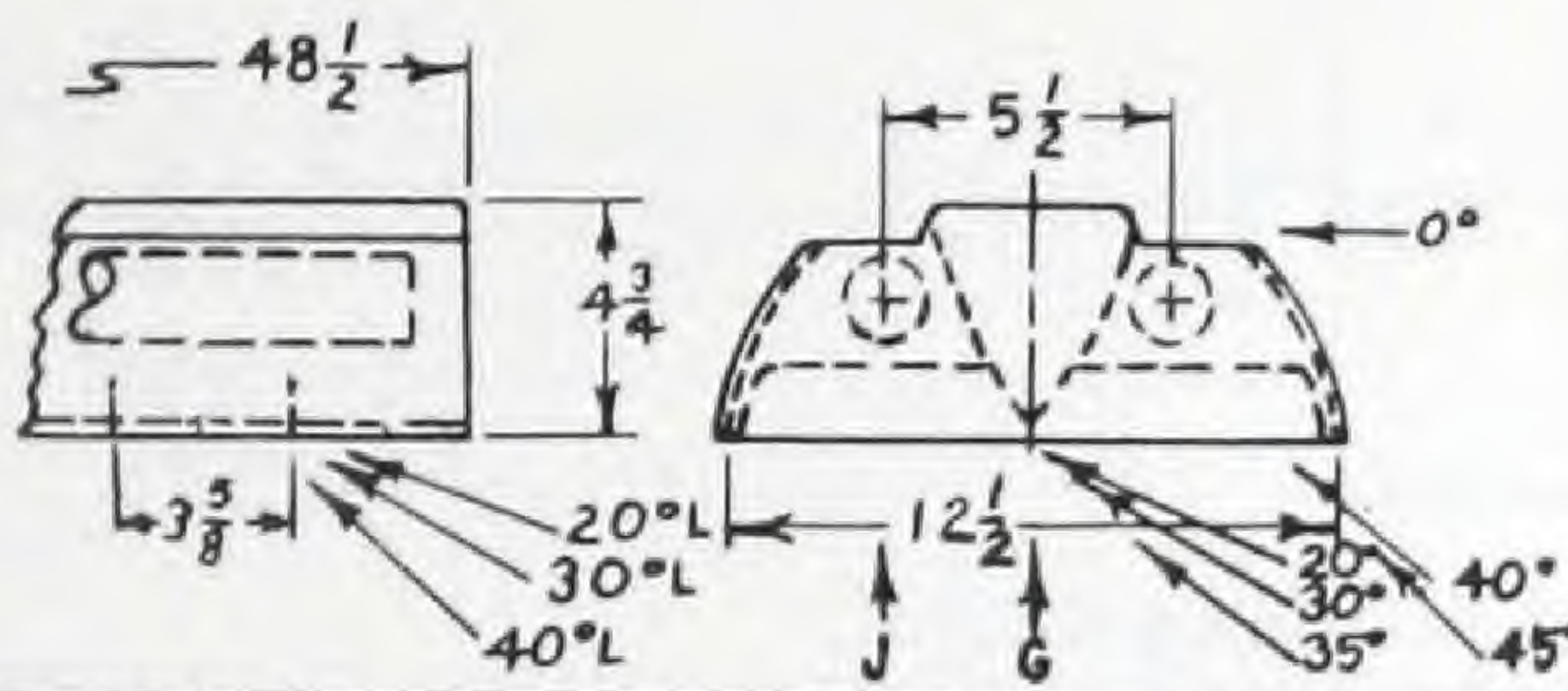
Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing and cross louver, reflectance 0.80; metal sides.

Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.

Maximum temperature rise - 52 C; specified max. 65 C

\*ETL No. 1752



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° ZEN.	620		90° HOR.	22.2	
175°	620	59	85°	27.1	30
165°	600	170	75°	66.0	70
155°	560	259	65°	127	126
145°	491	308	55°	259	232
135°	380	294	45°	470	364
125°	266	238	35°	665	418
115°	183	182	25°	775	358
105°	105	111	15°	840	238
95°	42.0	46	5°	870	83
			0° NAIR	875	
LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	1919	41.5
0°-40°	1097	24.0	90°-180°	1667	36.5
0°-60°	1693	37.0	0°-180°	3586	78.0

#### LUMINAIRE BRIGHTNESS

Shielding Angles 34-1/2°-23°

ANGLES	0°	20°	30°	35°	40°	45°	20°L	30°L	40°L	G	J
C/89 In.	0.54	0.65	0.78	0.93	1.7	2.8	0.55	1.2	2.6	0.26	4.2

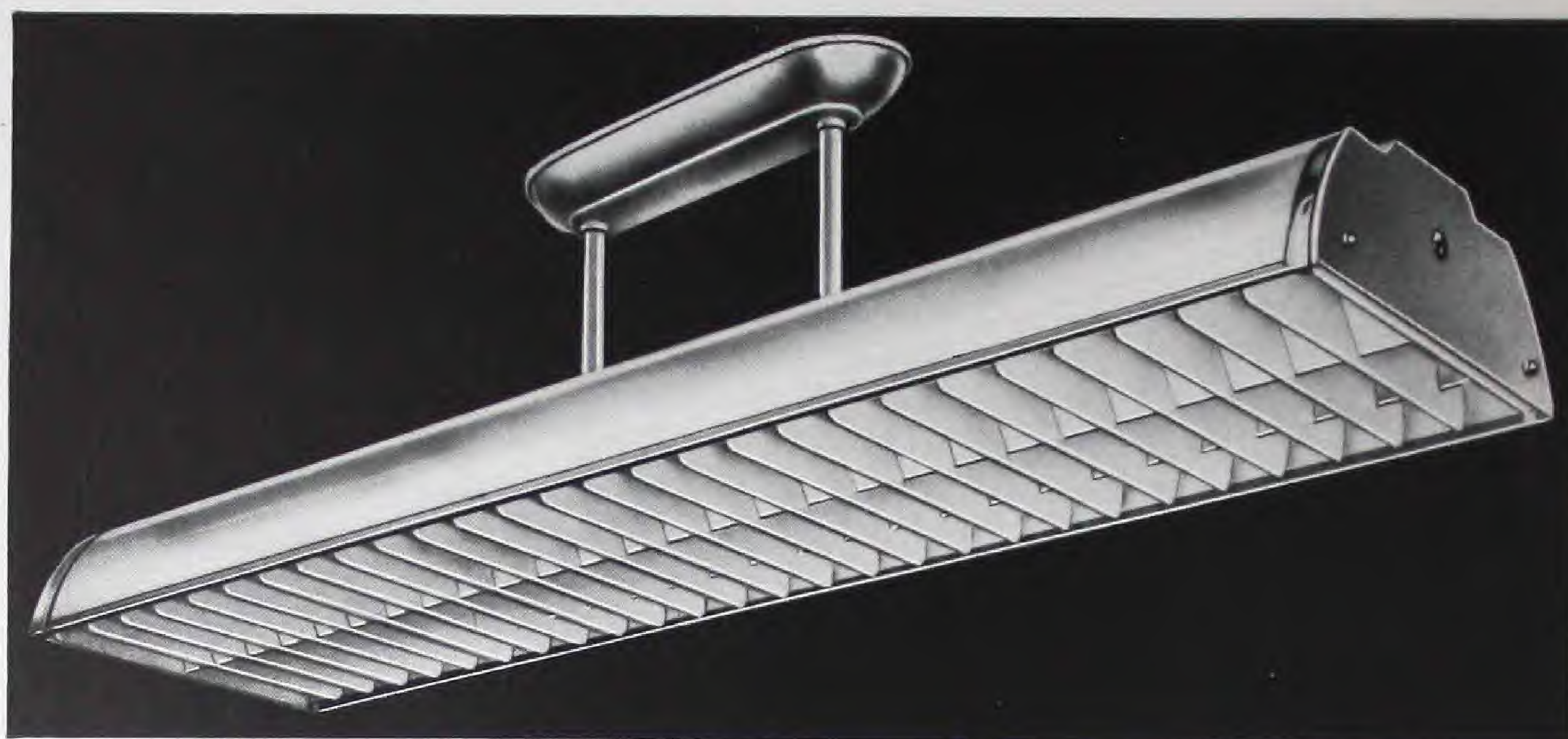
TESTED BY *WJ* PLOTTED BY *JT* COMPUTED BY *CW* CHECKED BY *San* ISSUED *March 3, 1949*

REPORT APPROVED BY *William Smith*  
ENGINEER, PHOTOMETRIC DEPARTMENT

*Caroline E. Horn*  
IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO ETL REVIEW AND APPROVAL.





### Catalog No. 324 1/2

(with Catalog No. 2 Twin-Stem Hanger)

A softly luminous, direct-indirect pendant luminaire with curved glass side reflectors, for use in Schoolrooms, Offices, and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 2-40 watt fluorescent lamps.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Equipped with FS-4 starters.
- Width 12 1/2"—Depth 5 1/2"—Length 48".
- Net weight 29 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

#### UTILIZATION FACTORS FOR CAT. NO. 324 1/2 TWO 40-WATT FLUORESCENT LUMINAIRE

CEILING		75%			50%			30%	
WALLS		50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX		C O E F F I C I E N T O F U T I L I Z A T I O N							
J.	0.6	0.26	0.23	0.21	0.23	0.21	0.19	0.19	0.17
I.	0.8	0.32	0.29	0.27	0.28	0.26	0.24	0.23	0.21
H.	1.0	0.35	0.32	0.31	0.31	0.28	0.27	0.26	0.24
G.	1.25	0.39	0.36	0.33	0.34	0.31	0.30	0.28	0.26
F.	1.5	0.42	0.38	0.36	0.36	0.33	0.32	0.29	0.28
E.	2.0	0.45	0.42	0.40	0.39	0.36	0.34	0.32	0.30
D.	2.5	0.49	0.45	0.42	0.41	0.39	0.37	0.34	0.33
C.	3.0	0.51	0.47	0.45	0.43	0.40	0.39	0.35	0.34
B.	4.0	0.54	0.51	0.48	0.45	0.43	0.41	0.37	0.36
A.	5.0	0.55	0.53	0.50	0.47	0.44	0.43	0.38	0.37

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70



### REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330342

Order No. 19249-L

Plate No. 55608

Date February 25, 1949

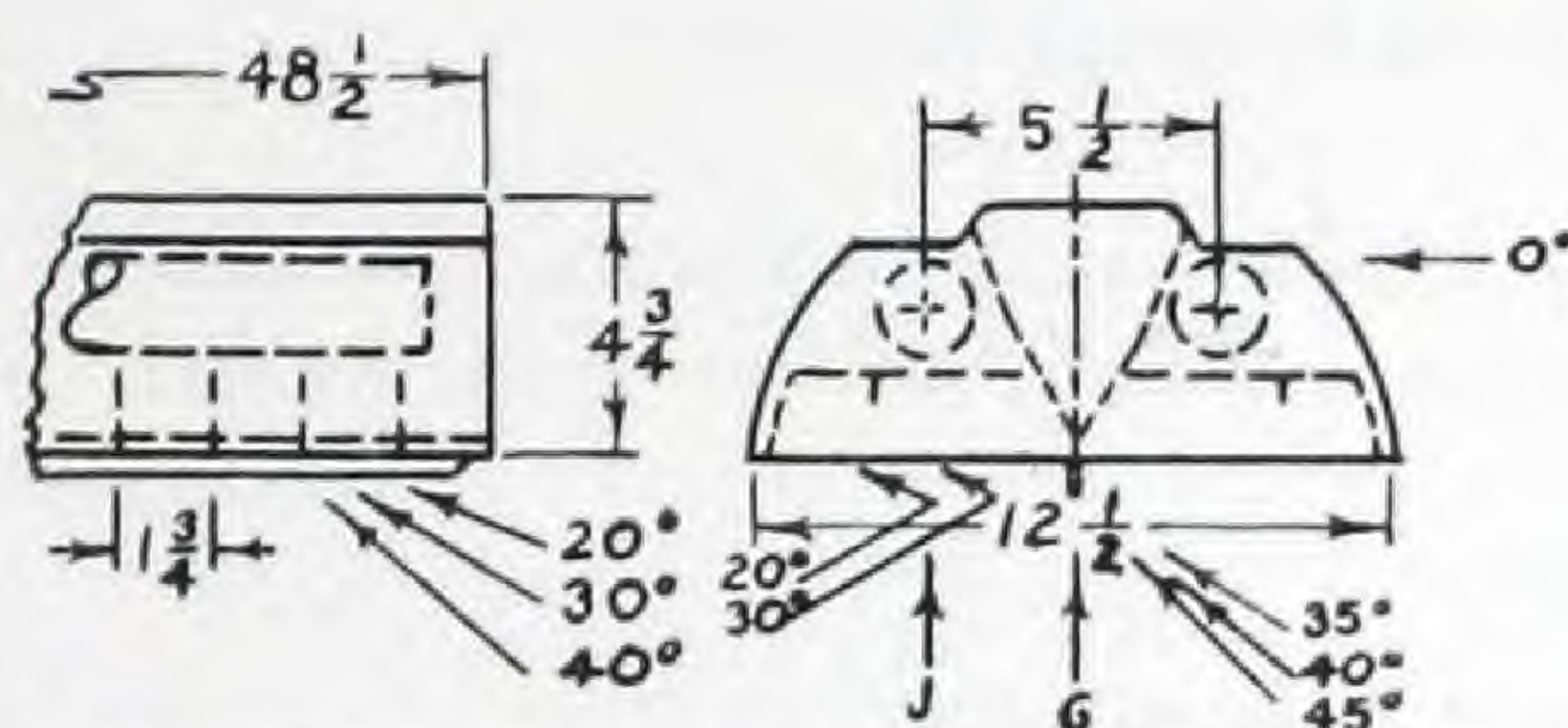
CANDLEPOWER DISTRIBUTION  
CAT. NO. 324-1/2 PENDANT-MOUNTED FLUORESCENT LUMINAIRE\*  
TYPE - G-40-40-1-P

Tested under Fleur-O-Lier Specifications

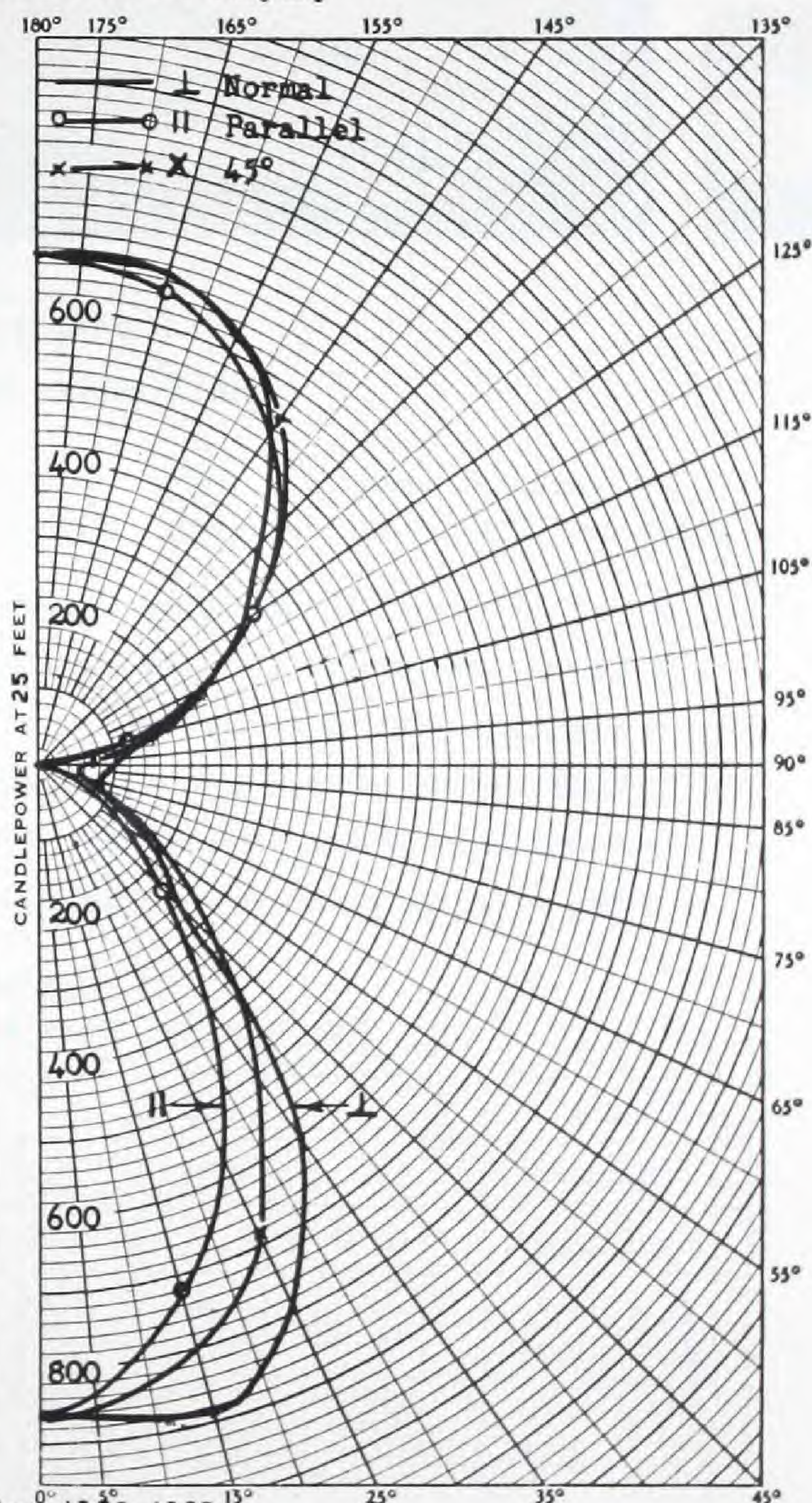
Rendered to Gill Glass and Fixture Company

Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.  
Unit - Synthetic enameled metal housing, reflectance 0.80; cross louvers, reflectance 0.86; glass sides.  
Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.  
Maximum temperature rise - 52 C; specified max. 65 C

\*ETL No. 1752



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° ZEN.	665		90° HOR.	57	
175°	670	64	85°	53.0	58
165°	665	188	75°	75.5	80
155°	615	285	65°	117	116
145°	550	345	55°	171	153
135°	449	347	45°	286	221
125°	329	295	35°	505	317
115°	236	234	25°	685	317
105°	151	160	15°	810	229
95°	77.0	84	5°	855	81
			0° NADIR	860	
LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	1572	34.0
0°-40°	944	20.5	90°-180°	2002	43.5
0°-60°	1434	31.0	0°-180°	3574	77.5
LUMINAIRE BRIGHTNESS					



Shielding Angles 41°C-41°L  
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

ANGLES	0°	20°	30°	35°	40°	45°	20°L	30°L	40°L	G	J
C/Sq In.	1.0	0.41	0.71	0.81	0.90	1.2	0.48	0.56	0.66	0.30	4.1
FOOT LAMBERTS											

TESTED BY *EJ* PLOTTED BY *JF* COMPUTED BY *CW* CHECKED BY *scw* ISSUED February 25, 1949

REPORT APPROVED BY *William F. Rush*  
ENGINEER, PHOTOMETRIC DEPARTMENT

*Carol E. Horn*  
IN CHARGE OF TEST

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## Catalog No. 324<sup>1</sup>/<sub>2</sub>-M

(with Catalog No. 2 Twin-Stem Hanger)

A direct-indirect, pendant luminaire with curved metal side reflectors, for use in Schoolrooms, Offices and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 2-40 watt fluorescent lamps.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Equipped with FS-4 starters.
- Width 12<sup>1</sup>/<sub>2</sub>"—Depth 5<sup>1</sup>/<sub>2</sub>"—Length 48".
- Net weight 29 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

### UTILIZATION FACTORS FOR CAT. NO. 324<sup>1</sup>/<sub>2</sub>M TWO 40-WATT FLUORESCENT LUMINAIRE

CEILING		75%			50%			30%	
WALLS		50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX		C O E F F I C I E N T O F U T I L I Z A T I O N							
J.	0.6	0.27	0.24	0.22	0.24	0.22	0.21	0.21	0.19
I.	0.8	0.32	0.30	0.28	0.29	0.27	0.26	0.25	0.23
H.	1.0	0.36	0.33	0.32	0.32	0.30	0.29	0.28	0.26
G.	1.25	0.39	0.37	0.35	0.35	0.32	0.31	0.30	0.28
F.	1.5	0.42	0.39	0.37	0.36	0.34	0.33	0.31	0.30
E.	2.0	0.45	0.42	0.40	0.39	0.37	0.36	0.33	0.32
D.	2.5	0.48	0.45	0.43	0.42	0.40	0.38	0.35	0.34
C.	3.0	0.50	0.47	0.45	0.43	0.41	0.39	0.36	0.35
B.	4.0	0.53	0.50	0.48	0.45	0.43	0.42	0.38	0.37
A.	5.0	0.54	0.52	0.50	0.46	0.44	0.43	0.39	0.38

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70



### REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330343

Order No. 19249-L

Plate No. 55609

Date February 25, 1949

CANDLEPOWER DISTRIBUTION  
CAT. NO. 324-1/2M PENDANT-MOUNTED FLUORESCENT LUMINAIRE\*  
TYPE - G-40-40-1-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

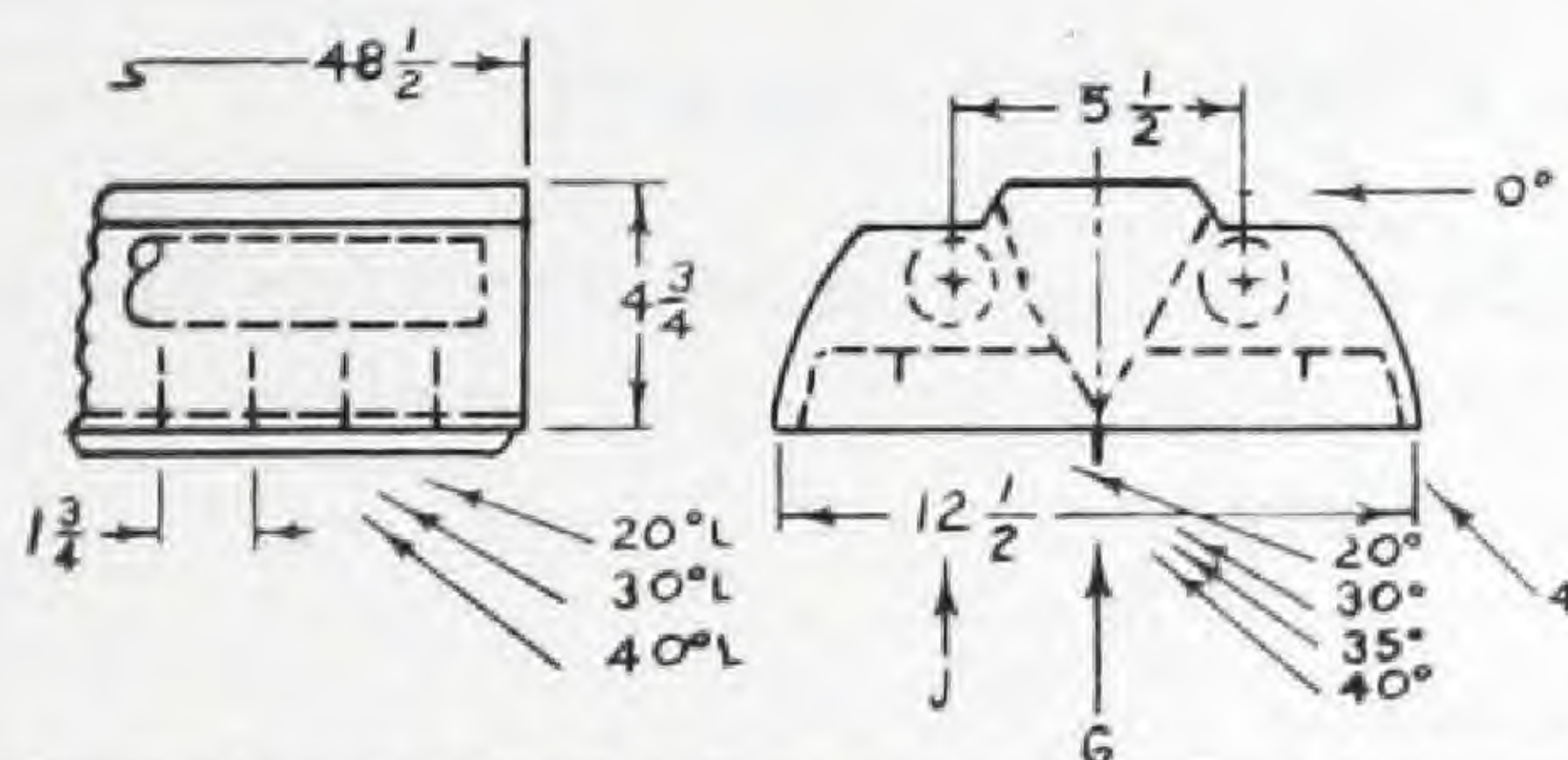
Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing, reflectance 0.80; cross louvers, reflectance 0.86; metal sides.

Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.

Maximum temperature rise - 52 C; specified max. 65 C

\*ETL No. 1752



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° ZEN.	630		90° HOR.	28.7	
175°	635	61	85°	29.1	32
165°	625	177	75°	61.5	65
155°	575	267	65°	115	114
145°	510	320	55°	185	166
135°	396	306	45°	311	241
125°	279	250	35°	535	336
115°	189	187	25°	720	333
105°	110	116	15°	860	243
95°	45.2	50	5°	920	87
			0° NAIR	925	
LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	1617	35.5
0°-40°	999	21.5	90°-180°	1734	37.5
0°-60°	1406	30.5	0°-180°	3351	73.0

#### LUMINAIRE BRIGHTNESS

Shielding Angles 41°C-41°L										
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW										
ANGLES	0°	20°	30°	35°	40°	45°	20°L	30°L	40°L	J
C/Sq In.	0.58	0.48	0.83	0.94	1.0	1.2	0.48	0.57	0.70	4.2
FOOT LAMBERTS										

TESTED BY *WT* PLOTTED BY *CW* COMPUTED BY *JT* CHECKED BY *scw* ISSUED February 25, 1949

REPORT APPROVED BY *William S. Leah*  
ENGINEER, PHOTOMETRIC DEPARTMENT

*Carolus E. Horn*  
IN CHARGE OF TEST

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## Catalog No. 324-S

(with Catalog No. 2 Twin-Stem Hanger)

*A softly luminous, direct, pendant luminaire with curved glass side reflectors. The top is closed by means of metal reflectors. For use in areas where longitudinal lamp shielding is not critical; but where it is desirable to have some light on the ceiling.*

- For use with 2-40 watt fluorescent lamps.
- Lamps shielded to 35° crosswise and 0° lengthwise.
- Equipped with FS-4 starters.
- Width 12½"—Depth 4¾"—Length 48".
- Net weight 29 lbs. (less hanger). Hangers shown on page 32.

### UTILIZATION FACTORS FOR CAT. NO. 324-S TWO 40-WATT FLUORESCENT LUMINAIRE

CEILING		75%			50%			30%	
WALLS		50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX		COEFFICIENT OF UTILIZATION							
J.	0.6	0.34	0.33	0.32	0.33	0.32	0.31	0.31	0.29
I.	0.8	0.41	0.39	0.38	0.39	0.38	0.37	0.36	0.35
H.	1.0	0.44	0.43	0.42	0.43	0.42	0.41	0.41	0.40
G.	1.25	0.48	0.47	0.46	0.46	0.45	0.44	0.46	0.43
F.	1.5	0.51	0.48	0.47	0.48	0.47	0.46	0.46	0.45
E.	2.0	0.54	0.53	0.52	0.53	0.51	0.49	0.50	0.48
D.	2.5	0.57	0.55	0.53	0.54	0.52	0.51	0.51	0.50
C.	3.0	0.58	0.56	0.54	0.55	0.53	0.52	0.52	0.51
B.	4.0	0.60	0.59	0.57	0.57	0.55	0.54	0.54	0.53
A.	5.0	0.61	0.60	0.58	0.58	0.57	0.56	0.55	0.54

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70



ACCESSORY: Gill Glass and Fixture Company  
#324-S 2-40 watt lamp fluorescent luminaire.  
Sides of clear glass, white ceramic coated on  
inside surface (.23 trans. factor). Wiring  
channel, "V" shaped longitudinal louver, and  
top reflectors finished in white synthetic  
enamel. End pieces finished in metallic gray  
enamel.

Lamp-4500° White F. Date 8-26-48

Watts-2x40

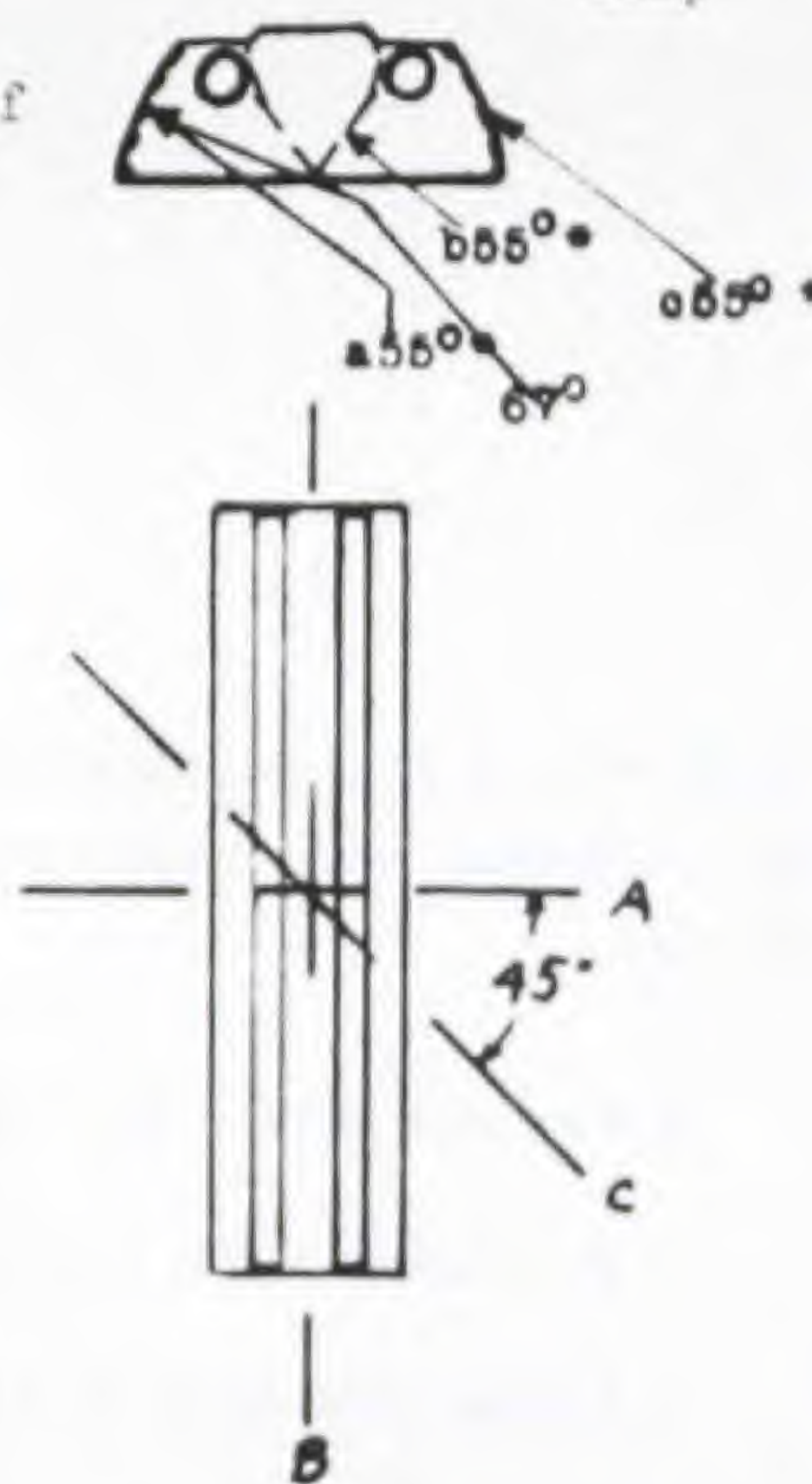
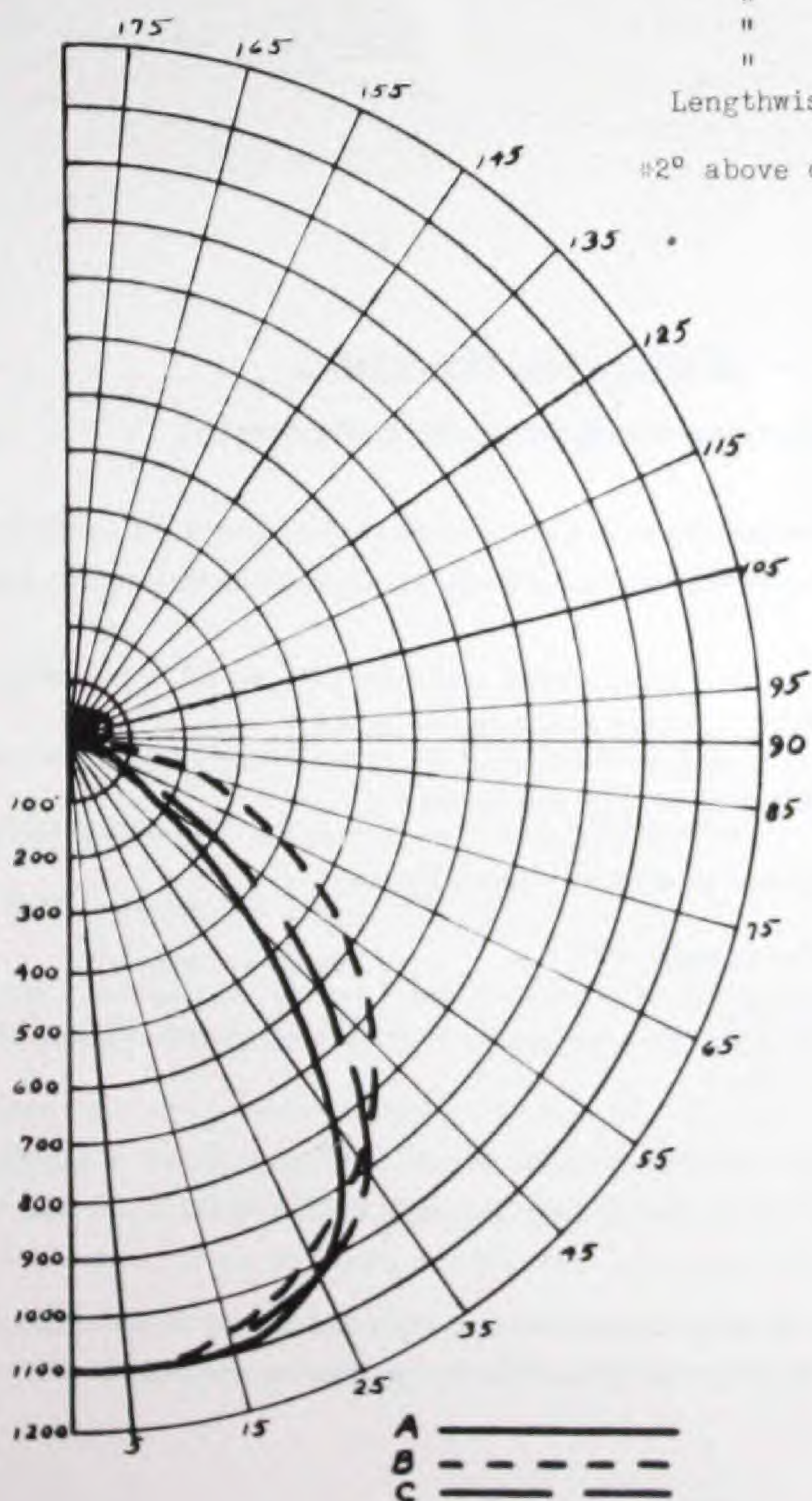
Lumens-4200 Total

Bulb-T-12, 48"

### MAXIMUM BRIGHTNESS MEASUREMENTS

Viewing Direction	Angle	Ft-L
Crosswise	47°	Lamp
"	a55°*	260
"	b55°*	140
"	c55°*	90
"	67°	220
Lengthwise		Lamp

\*2° above cutoff

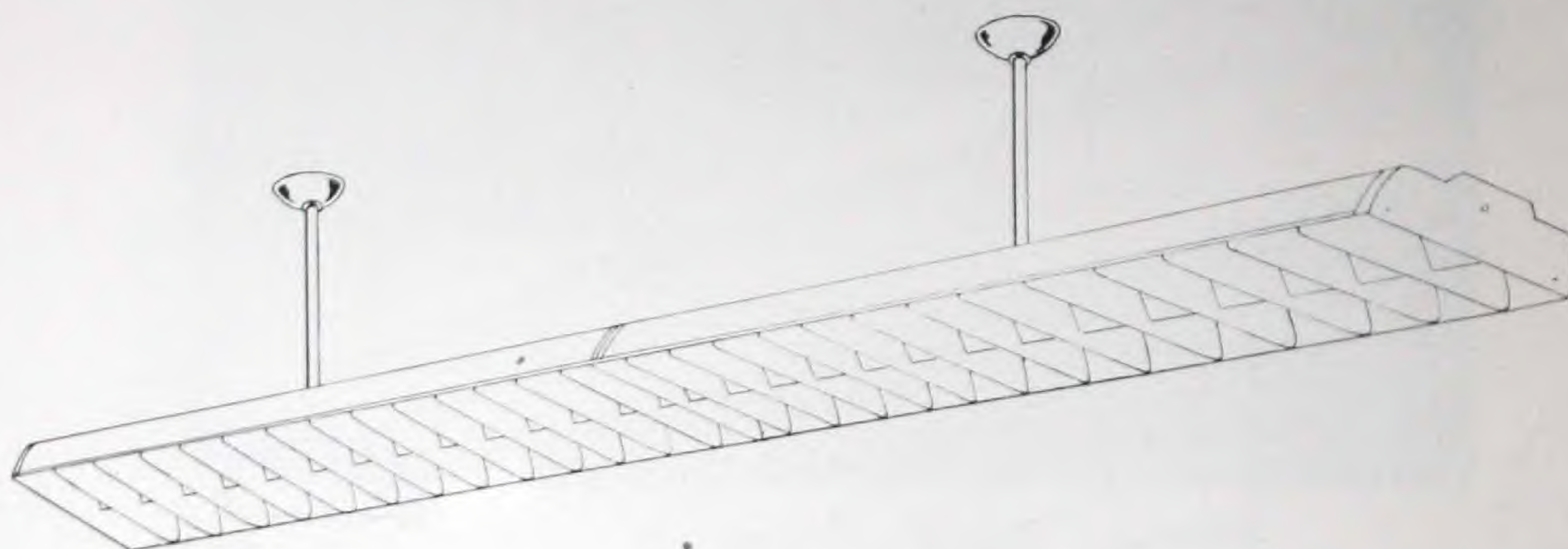


Zone	Lumens	% Total Lamp Lumens
0-40	1423	33.9
0-60	2247	53.5
0-90	2596	61.8
90-180	294	7.0
120-180	158	3.8
0-180	2890	68.8

Unit overall-12½" wide x  
4-¾" deep x 48" long.  
Lamps on 5½" centers

GILL GLASS AND FIXTURE COMPANY  
PHILADELPHIA, PENNA.





## Catalog No. SL-328

(with Catalog No. 3 Single-Stem Hangers)

*An 8' long, luminous, direct-indirect, pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.*

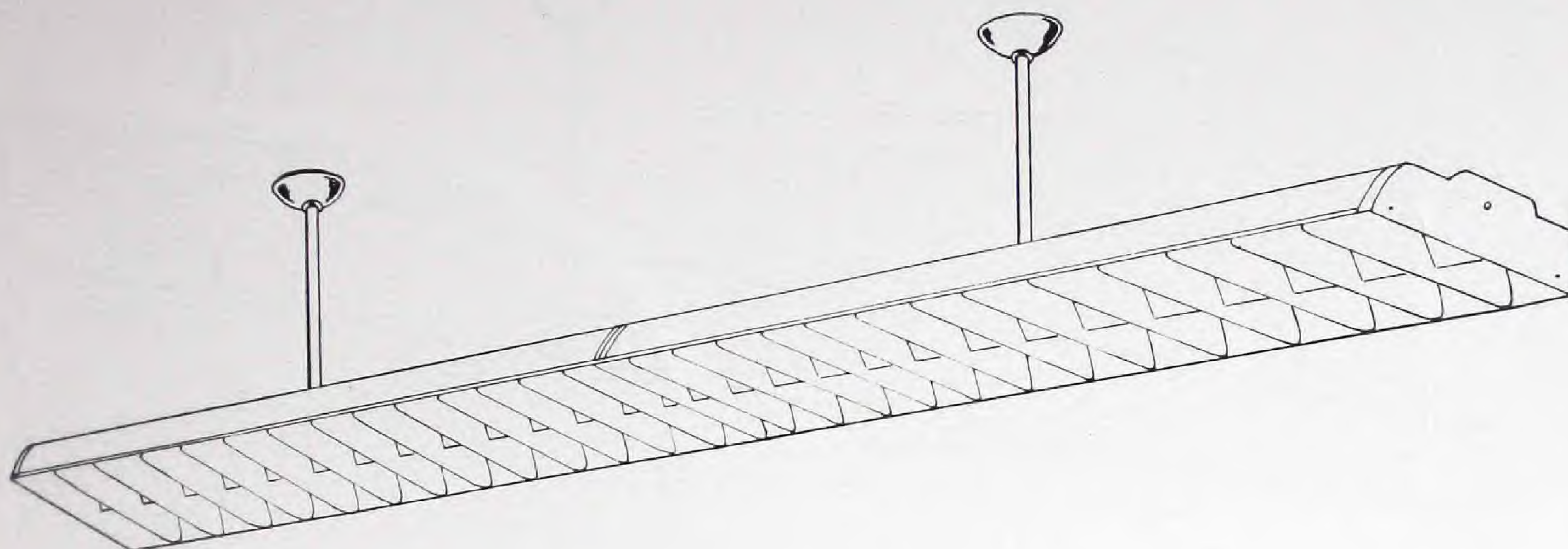
- For use with 2-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Width 12½"—Depth 4¾"—Length 96".
- Net weight 

200 ma — 42 lbs.	}	less hangers. Hangers shown on page 32.
300 ma — 45 lbs.		
425 ma — 51 lbs.		

With the exception that the ballast housing consists of one 8' long channel this slimline luminaire is identical to the catalog No. 324 luminaire shown on page 2. The bottom louvers and side glass reflectors are four feet long and are removable exactly the same as on the catalog No. 324.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 324 series, the intensities and brightnesses varying directly with the amperage selected.





### **Catalog No. SL-328-M**

**(with Catalog No. 3 Single-Stem Hangers)**

*An eight foot, direct-indirect pendant luminaire with metal side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.*

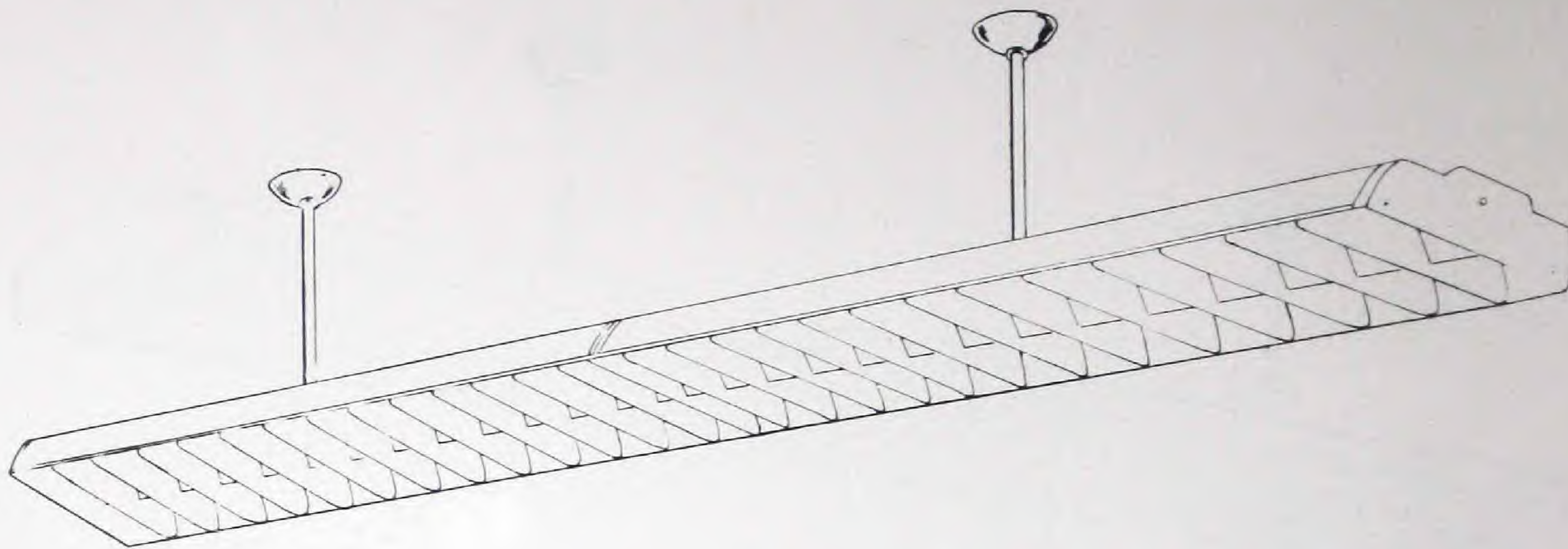
- For use with 2-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Width 12½"—Depth 4¾"—Length 96".
- Net weight 

200 ma — 42 lbs.	}	less hanger. Hangers shown on page 32.
300 ma — 45 lbs.		
425 ma — 51 lbs.		

With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 324-M luminaire shown on page 4. The bottom louvers and side metal reflectors are four feet long and are removable exactly the same as on the Catalog No. 324-M.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 324-M series, the intensities and brightnesses varying directly with the amperage selected.





## **Catalog No. SL-328 $\frac{1}{2}$**

**(with Catalog No. 3 Single-Stem Hangers)**

*An eight foot luminous direct-indirect pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices and other areas where high efficiency and comfortable low brightnesses are desired.*

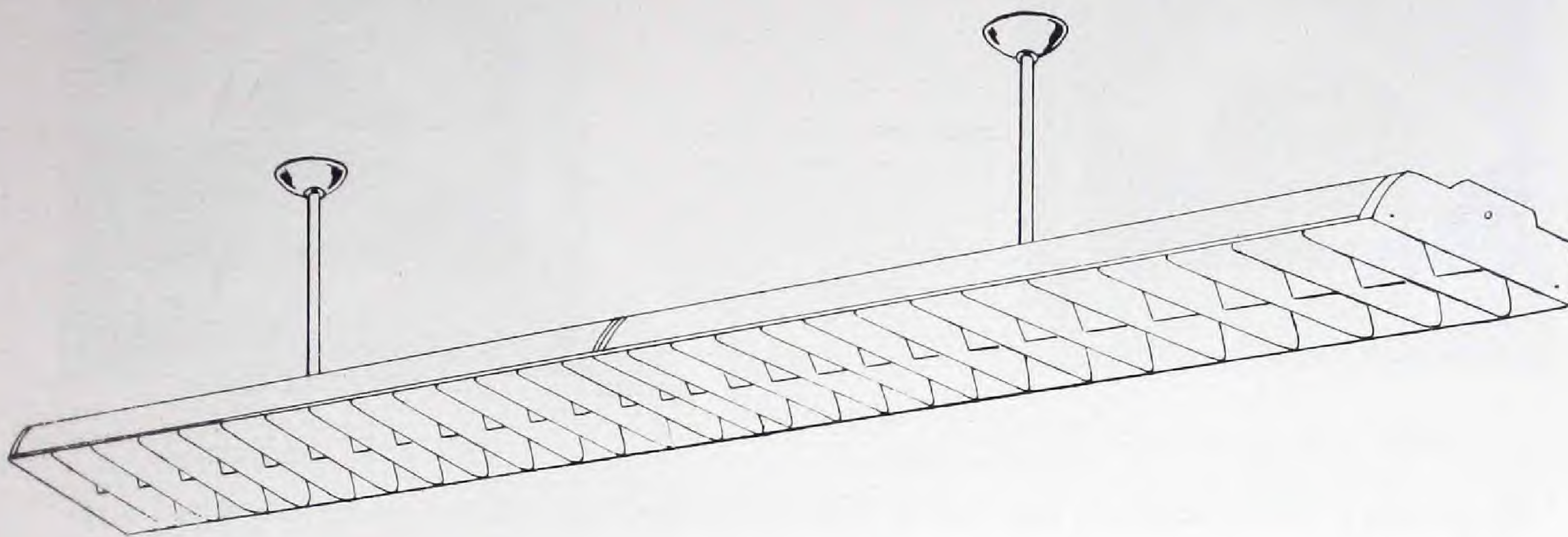
- For use with 2-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Width 12 $\frac{1}{2}$ "—Depth 5 $\frac{1}{2}$ "—Length 96".
- Net weight 

• Net weight	{	200 ma — 45 lbs.	}	less hanger. Hangers shown on page 32.
	300 ma — 48 lbs.			
	425 ma — 54 lbs.			

With the exception that the ballast housing consists of one eight foot channel this slimline luminaire is identical to the Catalog No. 324 $\frac{1}{2}$  luminaire shown on page 6. The bottom louvers and side glass reflectors are four feet long and are removable exactly the same as on the Catalog No. 324 $\frac{1}{2}$ .

The lighting characteristics of this slimline luminaire are also similar to those of the No. 324 $\frac{1}{2}$  series, the intensities and brightnesses varying directly with the amperage selected.





### **Catalog No. SL-328 $\frac{1}{2}$ -M**

**(with Catalog No. 3 Single Stem Hanger)**

*An 8 foot long, direct-indirect pendant luminaire with metal side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.*

- For use with 2-T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Width 12 $\frac{1}{2}$ "—Depth 5 $\frac{1}{2}$ "—Length 96".
- Net weight 

{	200 ma — 45 lbs.
	300 ma — 48 lbs.
	425 ma — 54 lbs.

 less hangers. Hangers shown on page 32.

With the exception that the ballast housing consists of one 8 foot long channel this slimline luminaire is identical to the Catalog No. 324 $\frac{1}{2}$ -M luminaire shown on page 8. The bottom louvers and side metal reflectors are four feet long and are removable exactly the same as on the Catalog No. 324 $\frac{1}{2}$ -M.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 324 $\frac{1}{2}$ -M series, the intensities and brightnesses varying directly with the amperage selected.



# GILL *planned lighting luminaires*



**Catalog No. 150**

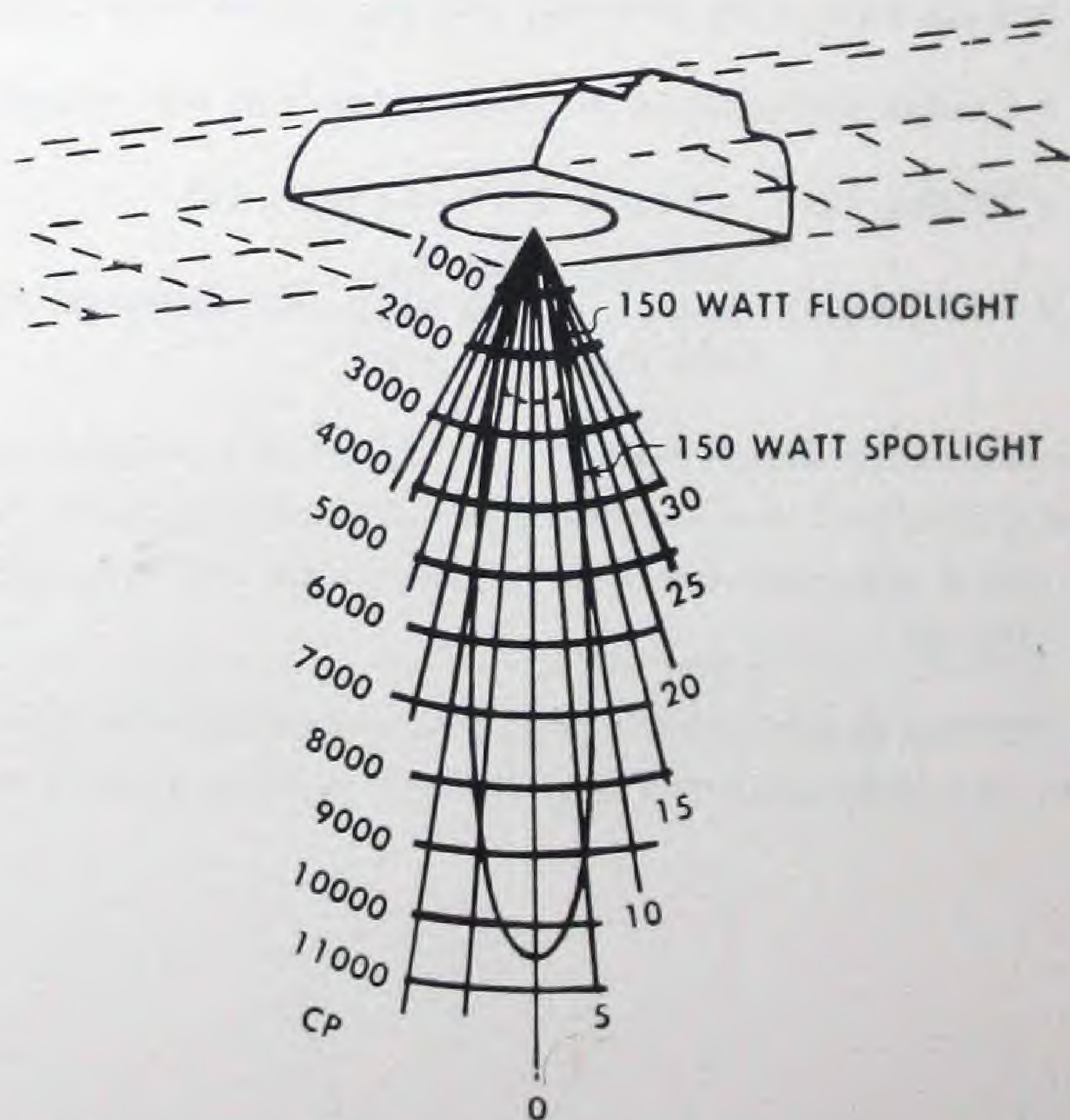
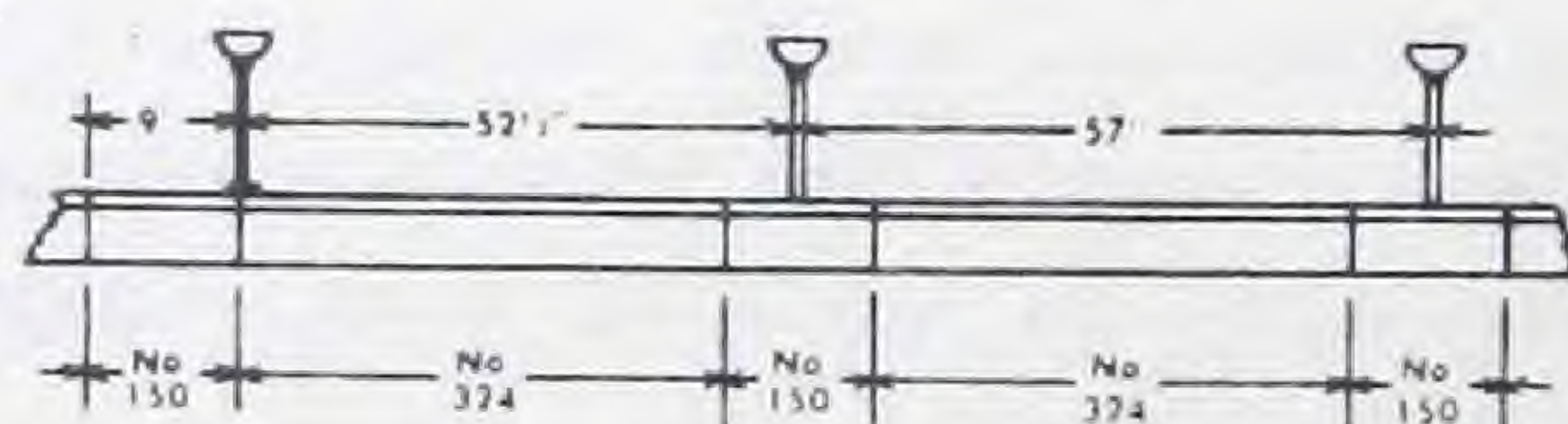


**Catalog No. 150**  
with L-150 Louver

An all metal "Down-Lighting" unit having universal gimbel ring adjustment for use with an incandescent 150 watt PAR "side prong" base incandescent lamp.

For use in conjunction with the No. 324 and SL-328 series of fluorescent luminaires for attachment between units, at the ends of continuous rows, or separately.

- Width 12½" —Depth 4¾" —Length 9".
- Net weight 5½ lbs.
- Complete with G. E. connector No. 95x931 AWG stranded nickel conductor insulated with silicon treated felted asbestos.
- Unit does not include lamp.







**Catalog No. 250**

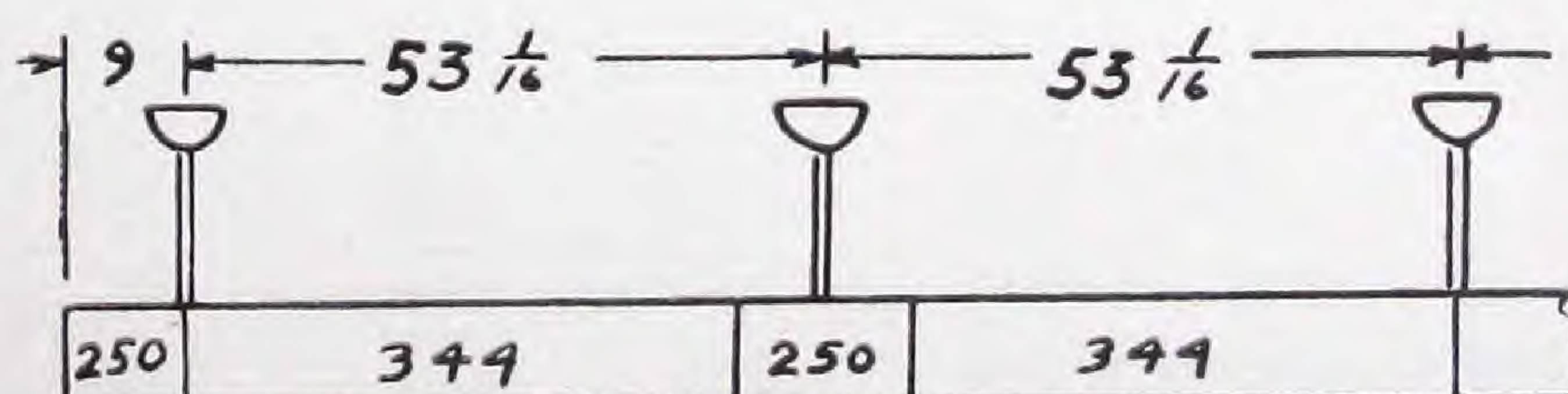
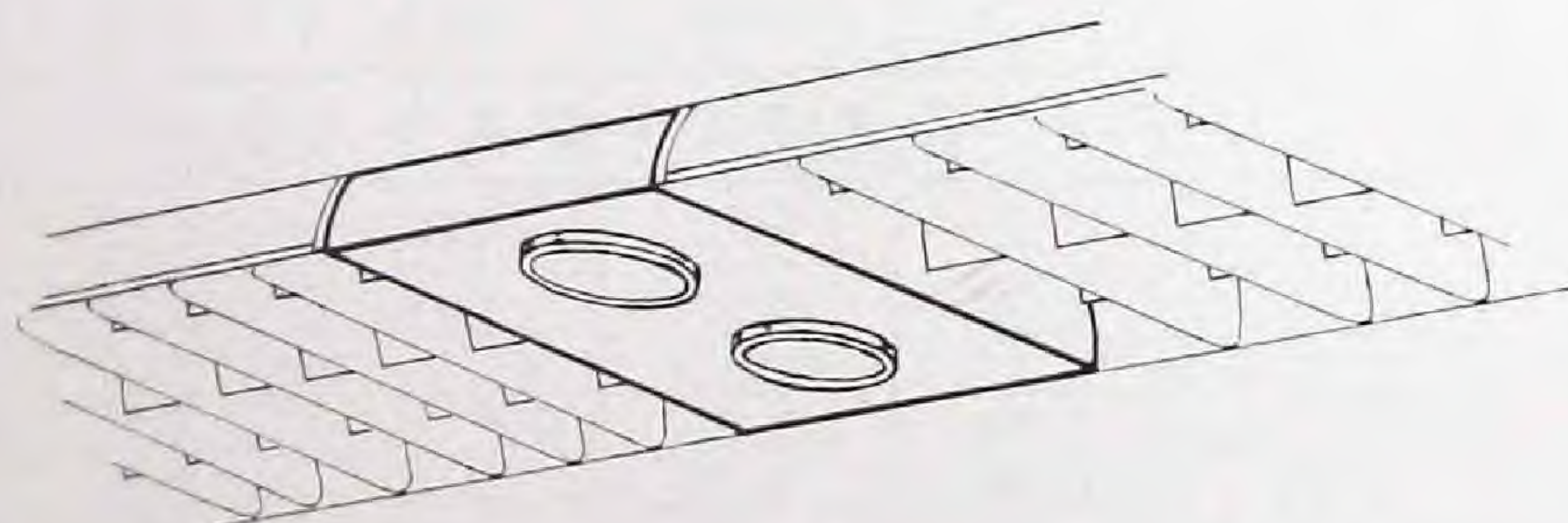


**Catalog No. 250**  
with L-150 Louver

*An all metal "Down-Lighting" unit having universal gimbel ring adjustment, for use with two incandescent 150 watt PAR "side prong" base incandescent lamps.*

For use in conjunction with the No. 344 and SL-348 fluorescent luminaires for attachment between units, at the ends of continuous rows, or separately.

- Width 16½" — Depth 4¾" — Length 9".
- Net weight 11 lbs.
- Complete with G. E. connector No. 95x931 AWG stranded nickel conductor insulated with silicon treated felted asbestos.
- Unit does not include lamps.







### Catalog No. 344

(with Catalog No. 2 Twin-Stem Hanger)

A softly luminous, direct-indirect pendant luminaire with curved glass side reflectors for use in Schoolrooms, Offices, and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 4-40 watt fluorescent lamps.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Equipped with FS-4 starters.
- Width 16½" —Depth 4¾" —Length 48⅝".
- Net weight 38 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

#### UTILIZATION FACTORS FOR CAT. NO. 344 FOUR 40-WATT FLUORESCENT LUMINAIRE

CEILING		75%			50%			30%	
WALLS		50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX		C O E F F I C I E N T O F U T I L I Z A T I O N							
J.	0.6	0.29	0.25	0.24	0.25	0.23	0.22	0.22	0.19
I.	0.8	0.35	0.32	0.30	0.31	0.28	0.27	0.26	0.24
H.	1.0	0.39	0.36	0.34	0.34	0.32	0.30	0.29	0.27
G.	1.25	0.42	0.40	0.37	0.37	0.34	0.33	0.31	0.29
F.	1.5	0.45	0.42	0.39	0.39	0.36	0.35	0.32	0.31
E.	2.0	0.49	0.46	0.43	0.42	0.40	0.38	0.35	0.34
D.	2.5	0.53	0.49	0.46	0.45	0.42	0.41	0.37	0.36
C.	3.0	0.55	0.51	0.48	0.46	0.44	0.42	0.38	0.37
B.	4.0	0.58	0.55	0.52	0.48	0.46	0.45	0.40	0.39
A.	5.0	0.59	0.57	0.55	0.50	0.48	0.46	0.41	0.40

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70



### REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 329593

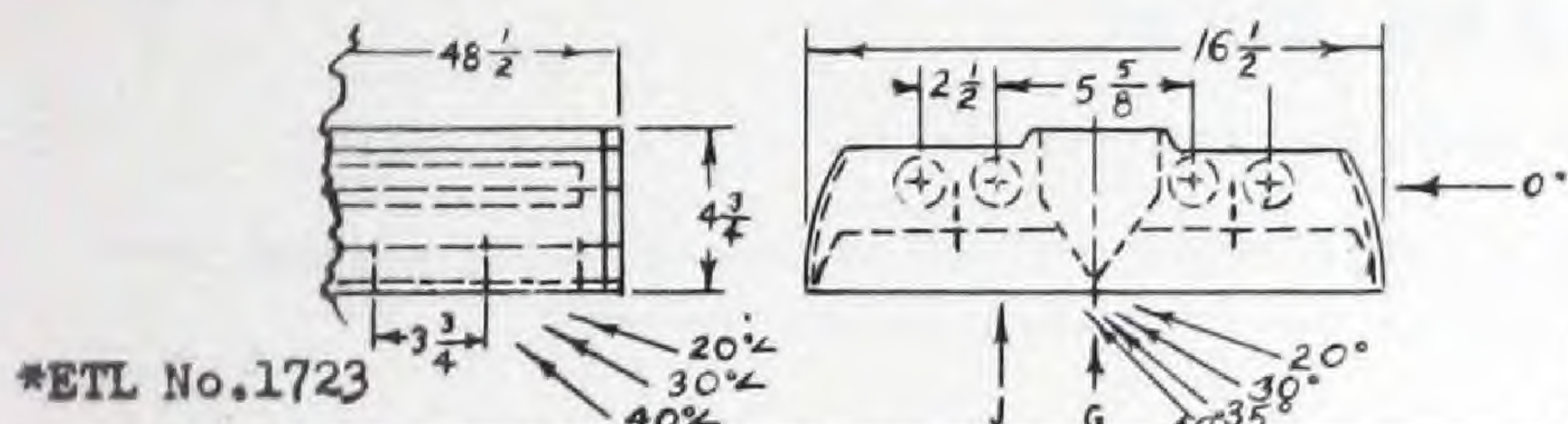
Order No. 19249-L

Plate No. 55405

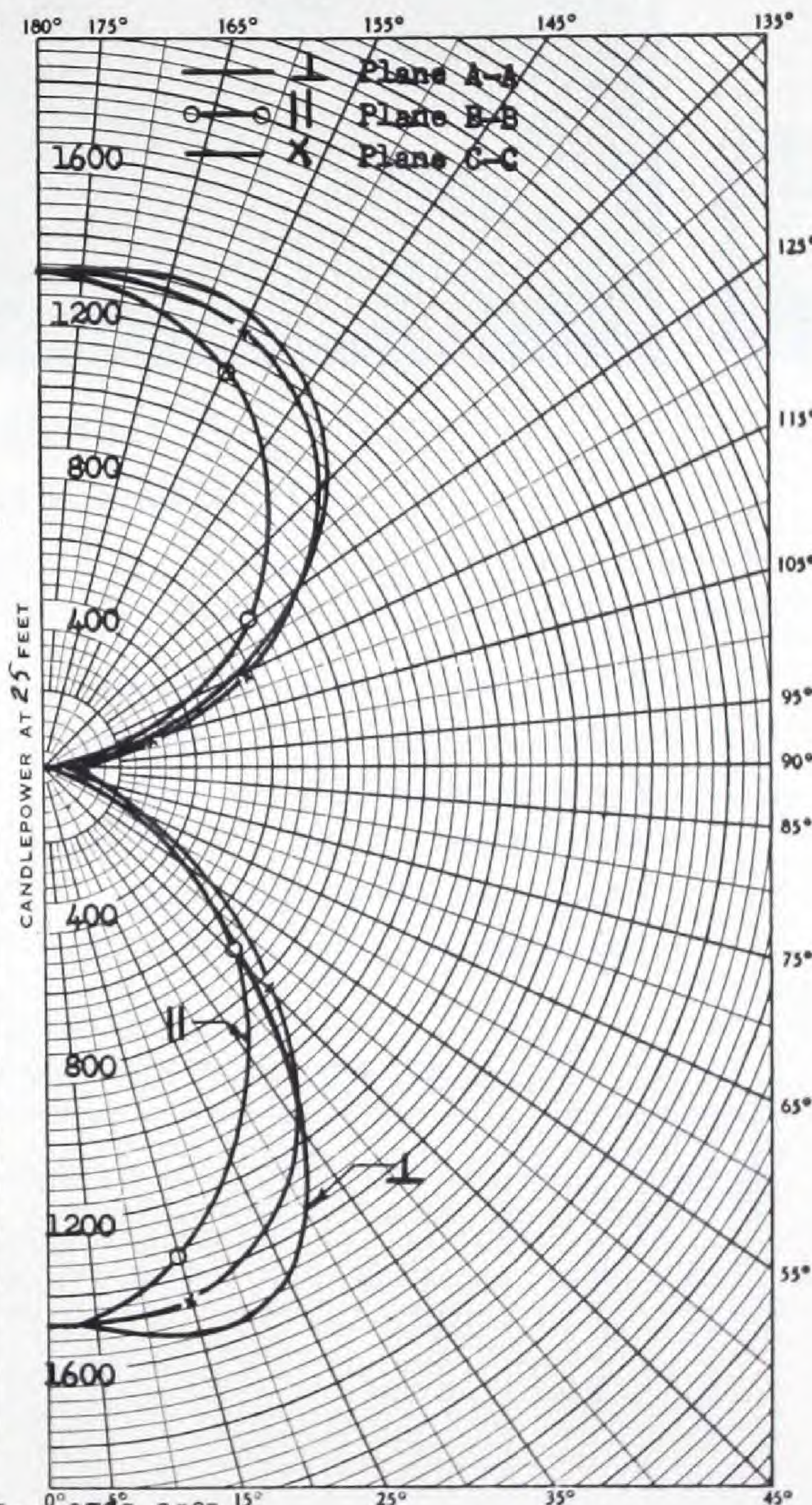
Date December 29, 1948

CANDLEPOWER DISTRIBUTION  
CAT. NO. 344 PENDANT-MOUNTED FLUORESCENT LUMINAIRE\*  
TYPE - GD-35-20-1-P  
Tested under Fleur-O-Lier Specifications  
Rendered to Gill Glass and Fixture Company

Lamps - Four - 40 Watts; 118 Volts; 2300 Lumens; T-12  
White Fluorescent.  
Unit - Synthetic enameled metal housing and cross  
louver, reflectance 0.85; curved, ceramic coated  
glass side panels.  
Test - Candlepower distribution in three vertical  
planes intersecting in the center of the unit; A-A  
normal, B-B parallel and C-C 45° to the tubes.  
Maximum temperature rise - 57 C; specified max. 65 C



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° ZEN.	1290		90° HOR.	58.0	
175°	1300	124	85°	66	72
165°	1300	368	75°	132	140
155°	1250	579	65°	230	228
145°	1150	722	55°	447	401
135°	990	766	45°	765	592
125°	795	713	35°	1110	697
115°	545	540	25°	1340	621
105°	286	302	15°	1460	413
95°	116	127	5°	1480	141
			0° NAIR	1480	
LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	3305	36.0
0°-40°	1872	20.5	90°-180°	4241	46.0
0°-60°	2865	31.0	0°-180°	7546	82.0
LUMINAIRE BRIGHTNESS					

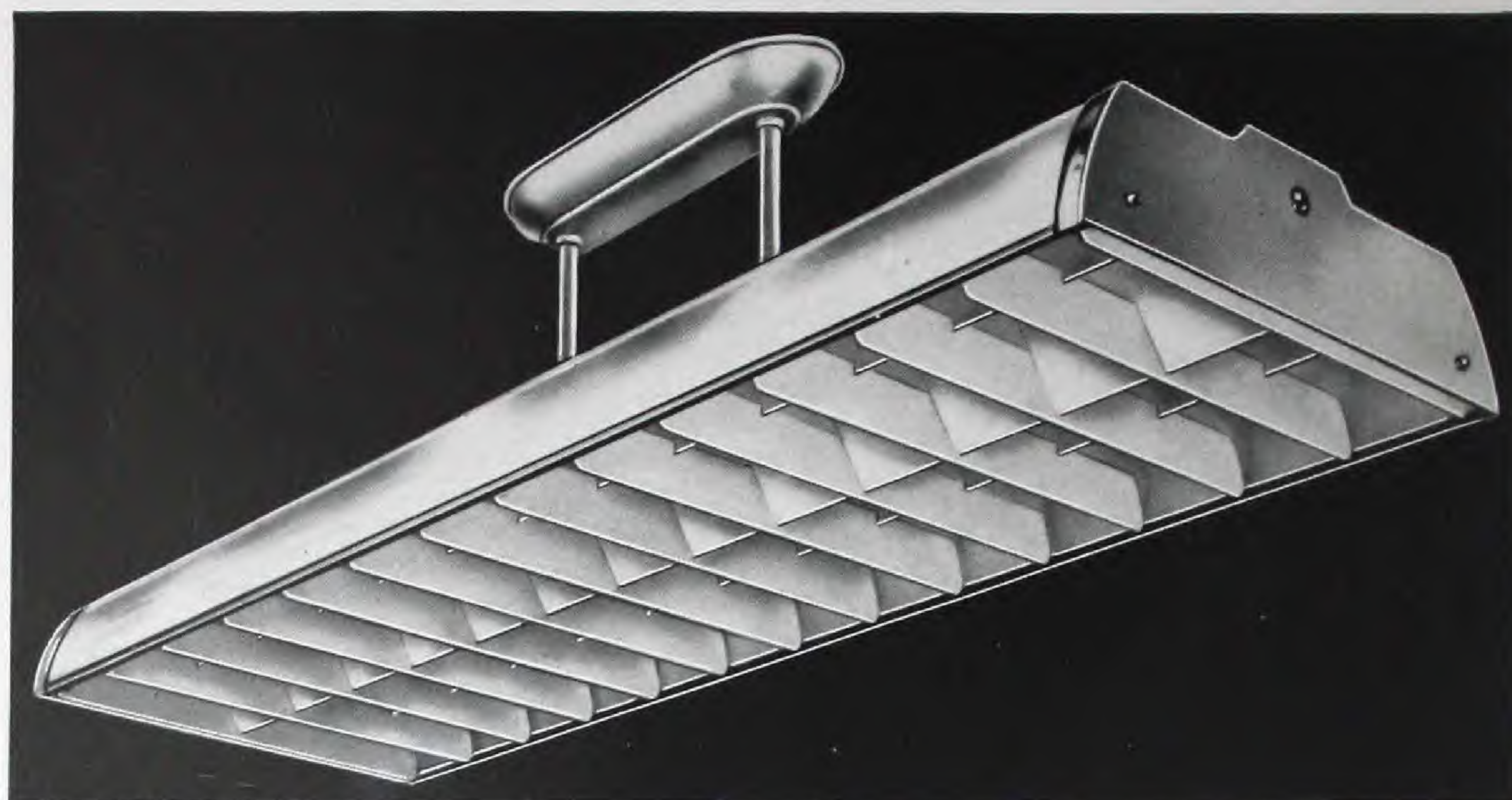


Shielding Angles 37° C-25° L										
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW										
ANGLES	0°	20°	30°	35°	40°	45°	20° L	30° L	40° L	J
C/Sq In.	0.38	0.77	1.1	1.4	2.0	2.7	0.68	1.4	3.1	4.4

TESTED BY W. I. PLOTTED BY J. T. COMPUTED BY Sen CHECKED BY Sen ISSUED December 29, 1948  
REPORT APPROVED BY W. I. Little ENGINEER, PHOTOMETRIC DEPARTMENT  
Carolene E. Horn IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO ETL REVIEW AND APPROVAL.





### Catalog No. 344-M

(with Catalog No. 2 Twin-Stem Hanger)

A direct, indirect pendant luminaire with metal side reflectors for use in Schoolrooms, Offices, and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 4-40 watt fluorescent lamps.
- Lamps shielded to 37° crosswise 25° lengthwise.
- Equipped with FS-4 starters.
- Width 16½"—Depth 4¾"—Length 48⅝".
- Net weight 38 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

#### UTILIZATION FACTORS FOR CAT. NO. 344M FOUR 40-WATT FLOURESCENT LUMINAIRE

CEILING		75%			50%			30%	
WALLS		50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX		C O E F F I C I E N T O F U T I L I Z A T I O N							
J.	0.6	0.29	0.25	0.23	0.25	0.23	0.21	0.21	0.19
I.	0.8	0.35	0.32	0.30	0.31	0.28	0.27	0.26	0.24
H.	1.0	0.39	0.36	0.34	0.34	0.32	0.30	0.29	0.27
G.	1.25	0.42	0.39	0.38	0.37	0.35	0.33	0.31	0.30
F.	1.5	0.45	0.42	0.40	0.39	0.37	0.35	0.33	0.32
E.	2.0	0.49	0.46	0.44	0.43	0.40	0.38	0.35	0.34
D.	2.5	0.53	0.49	0.47	0.45	0.43	0.41	0.38	0.37
C.	3.0	0.55	0.52	0.49	0.47	0.45	0.43	0.39	0.38
B.	4.0	0.58	0.55	0.53	0.49	0.47	0.45	0.40	0.39
A.	5.0	0.59	0.57	0.55	0.51	0.48	0.47	0.42	0.40

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70



### REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330304

Order No. 19249-L

Plate No. 55600

Date February 23, 1949

CANDLEPOWER DISTRIBUTION  
CAT. NO. 344M PENDANT-MOUNTED FLUORESCENT LUMINAIRE\*  
TYPE - G-35-20-2-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

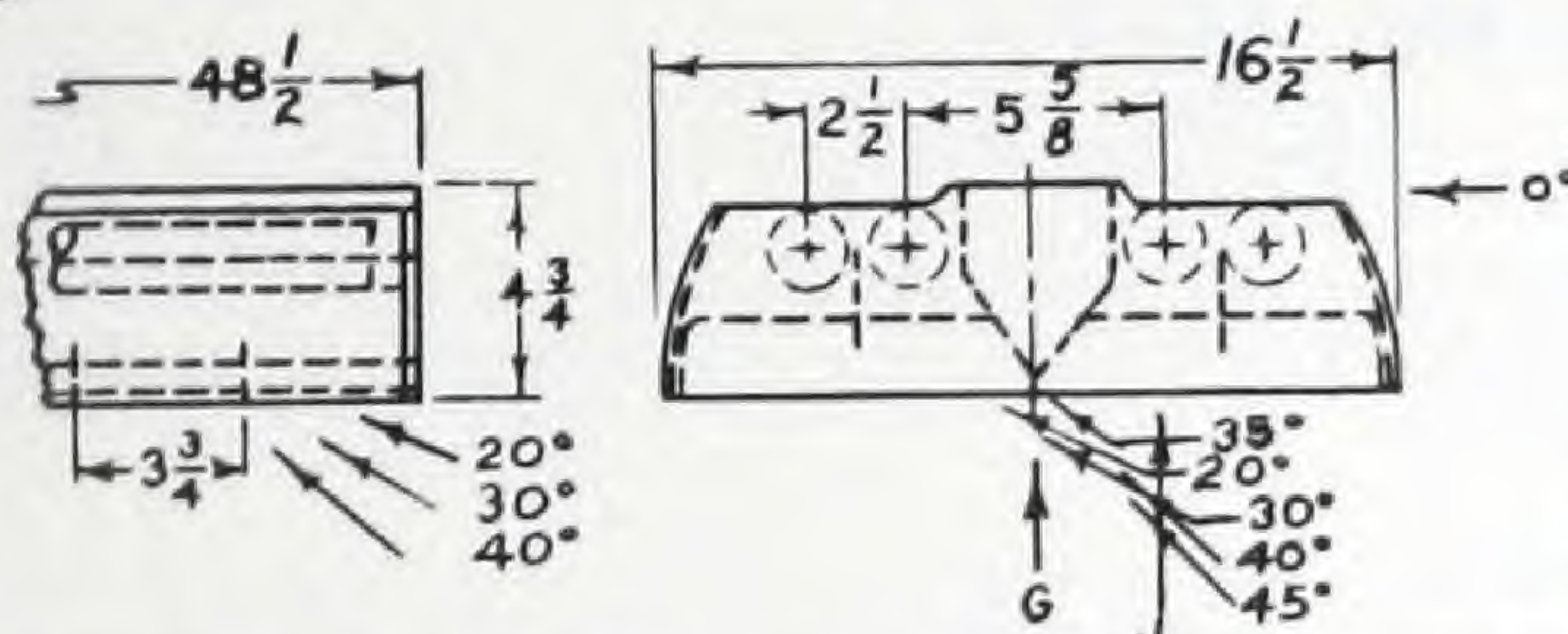
Lamps - Four - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing and louvers, reflectance 0.85; curved metal sides.

Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.

Maximum temperature rise - 57 C; specified max. 65 C

\*ETL No. 1723



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID. ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID. ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° ZEN.	1290		90° HOR.	33.1	
175°	1290	123	85°	44.6	48
165°	1280	362	75°	123	130
155°	1230	570	65°	244	243
145°	1130	710	55°	468	420
135°	970	751	45°	815	631
125°	765	686	35°	1150	722
115°	530	526	25°	1370	634
105°	249	263	15°	1500	424
95°	83.5	91	5°	1530	145
			0° RADIR	1530	
LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	3397	37.0
0°-40°	1925	21.0	90°-180°	4082	44.5
0°-60°	2976	32.5	0°-180°	7479	81.5

#### LUMINAIRE BRIGHTNESS

Shielding Angles 37° C-25° L													
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW													
ANGLES	0°	20°	30°	35°	37°	40°	45°	20° L	25° L	30° L	40° L	G	J
C/Sq In.	0.65	0.92	1.2	1.6	1.3	2.0	2.6	0.62	0.73	0.83	2.1	0.34	4.1
FOOT CANDLEBERTS													

TESTED BY *CJ* PLOTTED BY *Sen* COMPUTED BY *JF* CHECKED BY *Sen* ISSUED February 23, 1949  
REPORT APPROVED BY *William T. Smith* ENGINEER, PHOTOMETRIC DEPARTMENT  
*Carolus E. Horn* IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO ETL REVIEW AND APPROVAL.





## Catalog No. 344 $\frac{1}{2}$ (with Catalog No. 2 Twin-Stem Hanger)

A softly luminous, direct-indirect, pendant luminaire with curved glass side reflectors, for use in Schoolrooms, Offices and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 4-40 watt fluorescent lamps.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Equipped with FS-4 starters.
- Width 16 $\frac{1}{2}$ "—Depth 5 $\frac{1}{2}$ "—Length 48 $\frac{1}{8}$ ".
- Net weight 42 lbs. (less hanger). Hanger shown on page 32.
- Top Reflector Plates are available—see page 34.

### UTILIZATION FACTORS FOR CAT. NO. 344 $\frac{1}{2}$ FOUR 40-WATT FLUORESCENT LUMINAIRE

CEILING		75%			50%			30%	
WALLS		50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX		COEFFICIENT OF UTILIZATION							
J.	0.6	0.26	0.22	0.21	0.22	0.20	0.19	0.18	0.17
I.	0.8	0.31	0.28	0.26	0.27	0.25	0.23	0.22	0.21
H.	1.0	0.35	0.32	0.30	0.30	0.28	0.26	0.25	0.23
G.	1.25	0.38	0.35	0.33	0.33	0.30	0.29	0.26	0.25
F.	1.5	0.41	0.38	0.35	0.35	0.32	0.31	0.28	0.27
E.	2.0	0.44	0.41	0.39	0.38	0.35	0.33	0.30	0.29
D.	2.5	0.48	0.44	0.42	0.40	0.38	0.36	0.32	0.31
C.	3.0	0.50	0.47	0.44	0.41	0.39	0.37	0.33	0.32
B.	4.0	0.53	0.50	0.47	0.43	0.41	0.40	0.35	0.34
A.	5.0	0.54	0.52	0.50	0.45	0.43	0.41	0.36	0.35

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70



### REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330305

Order No. 19249-L

Plate No. 55601

Date February 23, 1949

CANDLEPOWER DISTRIBUTION  
CAT. NO. 344-1/2 PENDANT-MOUNTED FLUORESCENT LUMINAIRE\*  
TYPE - SI-40-40-2-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

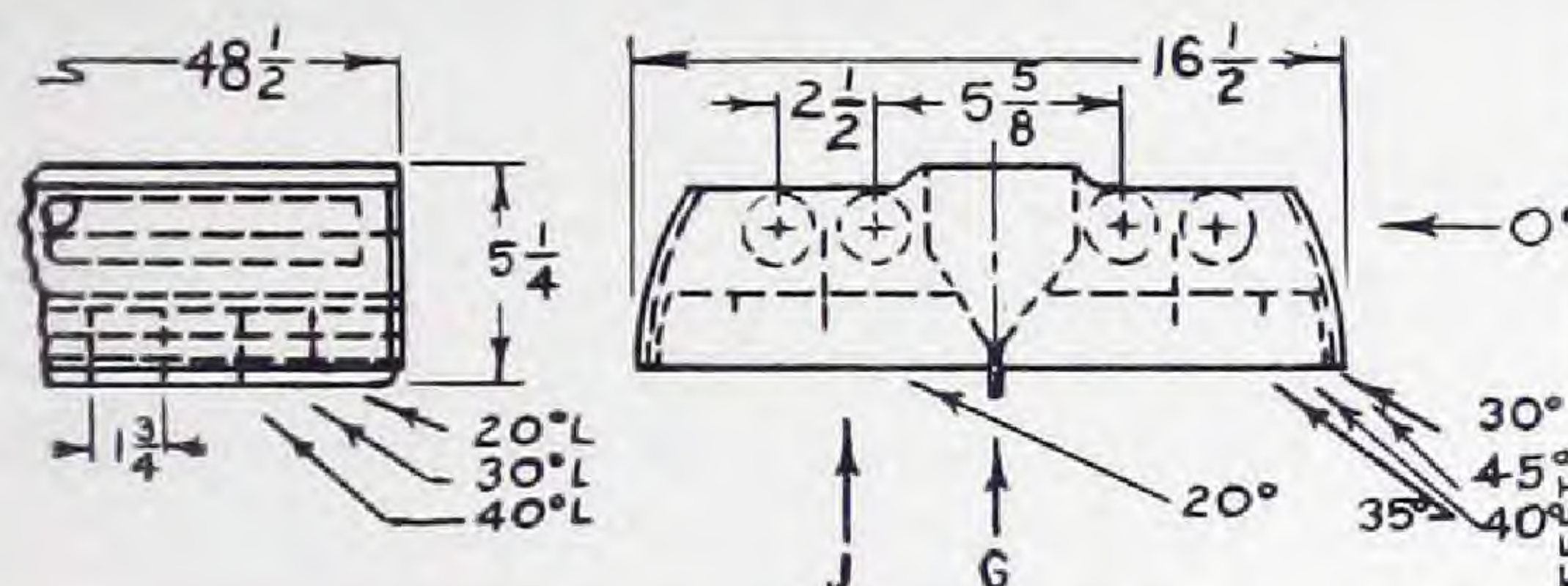
Lamps - Four - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing and louvers, reflectance 0.85; ceramic coated glass sides.

Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.

Maximum temperature rise - 57 C; specified max. 65 C

\*ETL No. 1723



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° ZEN.	1340		90° HOR.	67	
175°	1350	128	85°	68.5	75
165°	1330	377	75°	130	138
155°	1270	588	65°	213	211
145°	1160	728	55°	329	295
135°	1000	774	45°	525	406
125°	790	709	35°	865	544
115°	540	535	25°	1170	542
105°	284	301	15°	1400	396
95°	119	130	5°	1520	144
			0° NADIR	1550	
LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	2751	30.0
0°-40°	1626	17.5	90°-180°	4270	46.5
0°-60°	2327	25.0	0°-180°	7021	76.5

#### LUMINAIRE BRIGHTNESS

Shielding Angles 43-1/2°C-40-1/2°L

THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

ANGLES	0°	20°	30°	35°	40°	43-1/2°	45°	20°L	30°L	40°L	40-1/2°L	G	J
C/Sq In.	0.37	0.83	1.1	1.4	1.7	1.9	1.9	0.59	0.70	0.83	0.83	0.37	4.4
FOOT-CANDRETS													

TESTED BY *EJ* PLOTTED BY *CW* COMPUTED BY *JF* CHECKED BY *Sen* ISSUED February 23, 1949

REPORT APPROVED BY *William F. Smith*  
ENGINEER, PHOTOMETRIC DEPARTMENT

*Caroline E. Horn*  
IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO ETL REVIEW AND APPROVAL.





## Catalog No. 344 $\frac{1}{2}$ -M

(with Catalog No. 2 Twin-Stem Hanger)

A direct-indirect pendant luminaire with metal side reflectors for use in Schoolrooms, Offices, and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 4-40 watt fluorescent lamps.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Equipped with FS-4 starters.
- Width 16 $\frac{1}{2}$ "—Depth 5 $\frac{1}{2}$ "—Length 48 $\frac{5}{8}$ ".
- Net weight 42 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

### UTILIZATION FACTORS FOR CAT. NO. 344 $\frac{1}{2}$ M FOUR 40-WATT FLUORESCENT LUMINAIRE

CEILING		75%			50%			30%	
WALLS		50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX		C O E F F I C I E N T O F U T I L I Z A T I O N							
J.	0.6	0.26	0.23	0.21	0.23	0.21	0.19	0.20	0.17
I.	0.8	0.31	0.29	0.27	0.28	0.26	0.24	0.23	0.22
H.	1.0	0.35	0.32	0.318	0.30	0.28	0.27	0.26	0.24
G.	1.25	0.38	0.36	0.33	0.33	0.31	0.30	0.28	0.26
F.	1.5	0.41	0.38	0.35	0.35	0.33	0.31	0.29	0.28
E.	2.0	0.44	0.41	0.39	0.38	0.36	0.34	0.31	0.30
D.	2.5	0.48	0.44	0.42	0.40	0.38	0.37	0.33	0.32
C.	3.0	0.49	0.47	0.44	0.42	0.40	0.38	0.34	0.33
B.	4.0	0.52	0.49	0.47	0.43	0.42	0.40	0.35	0.35
A.	5.0	0.53	0.51	0.49	0.45	0.43	0.42	0.37	0.35

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70



### REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330306

Order No. 19249-L

Plate No. 55602

Date February 23, 1949

CANDLEPOWER DISTRIBUTION  
CAT. NO. 344-1/2M PENDANT-MOUNTED FLUORESCENT LUMINAIRE\*  
TYPE - G-40-40-2-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

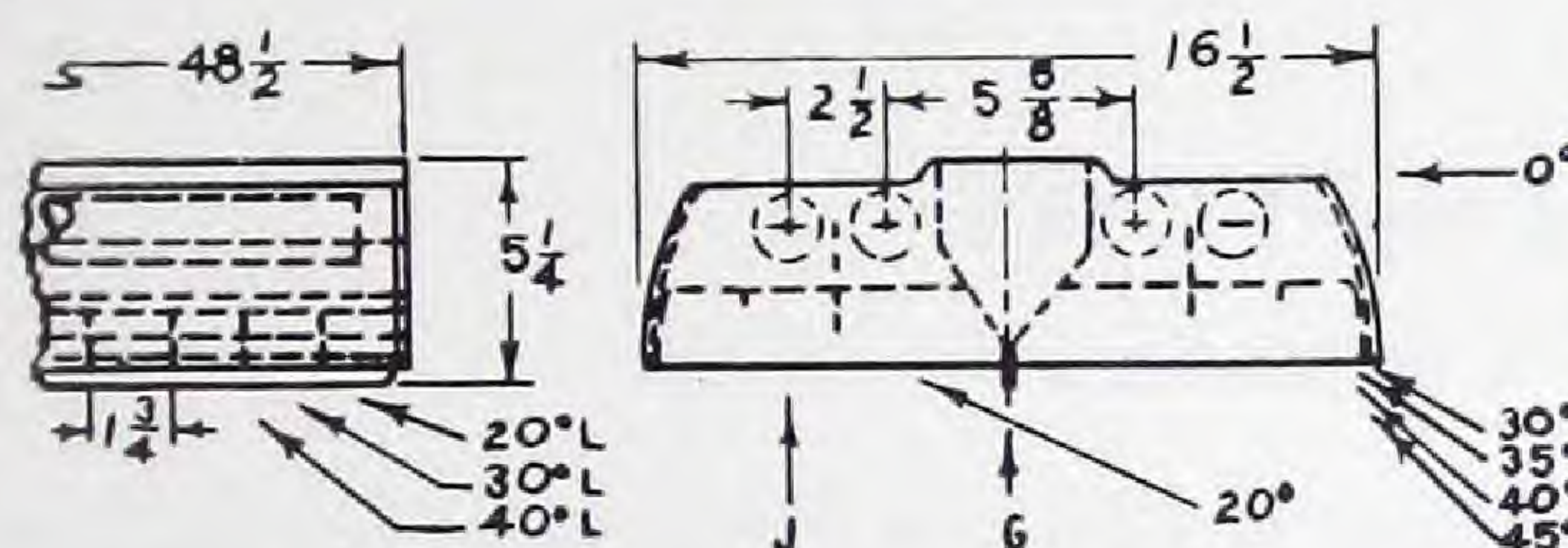
Lamps - Four - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing and louvers, reflectance 0.85; curved metal sides.

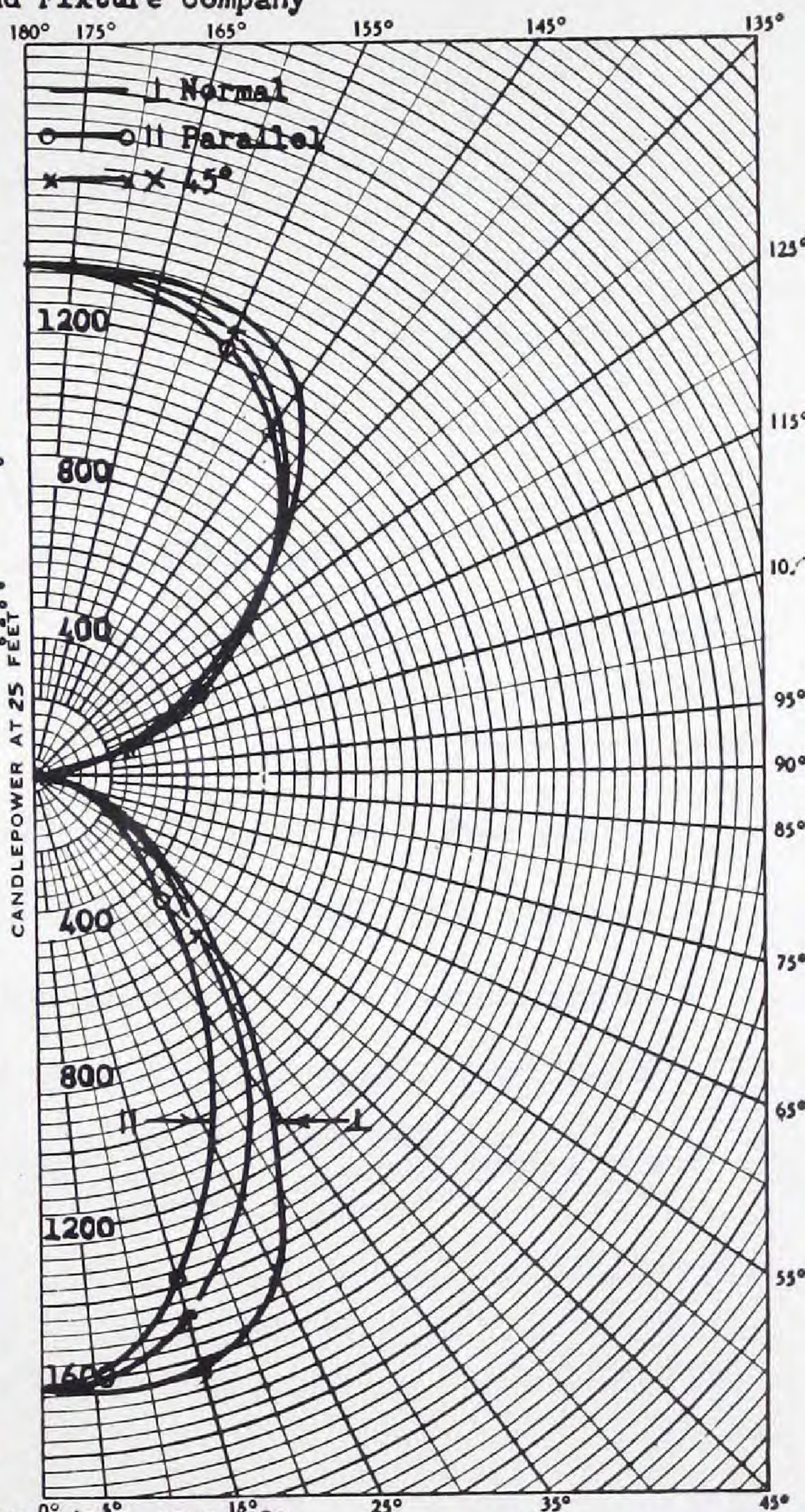
Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.

Maximum temperature rise - 57 C; specified max. 65 C

\*ETL No. 1723



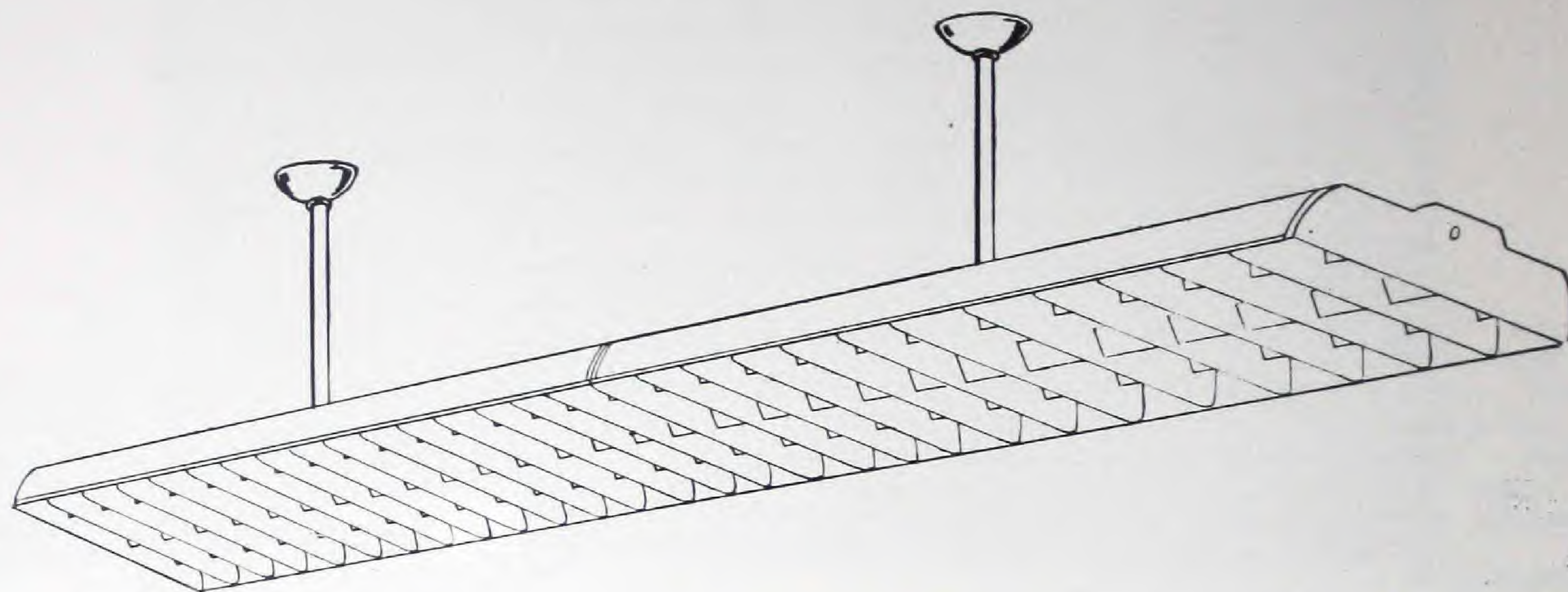
LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° ZEN.	1340		90° HOR.	38.6	
175°	1340	127	85°	43.3	47
165°	1330	376	75°	119	126
155°	1280	592	65°	222	220
145°	1140	716	55°	357	320
135°	935	723	45°	580	449
125°	685	615	35°	940	590
115°	432	429	25°	1260	583
105°	239	253	15°	1500	425
95°	82.5	90	5°	1610	153
			0° RADIR	1630	
LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	2913	31.5
0°-40°	1751	19.0	90°-180°	3921	43.0
0°-60°	2520	27.5	0°-180°	6834	74.5
LUMINAIRE BRIGHTNESS					



Shielding Angles 43-1/2° C-40-1/2° L												
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW												
ANGLES	0°	20°	30°	35°	40°	43-1/2°	45°	20° L	30° L	40° L	40-1/2° L	J
C/8q In.	0.92	1.0	1.3	1.6	1.8	1.8	2.0	0.63	0.74	0.90	0.90	0.42
FOOT-CANDLES												

TESTED BY *EJ* PLOTTED BY *Sen* COMPUTED BY *JF* CHECKED BY *Sen* ISSUED February 23, 1949  
REPORT APPROVED BY *William F. Pritchard* ENGINEER, PHOTOMETRIC DEPARTMENT  
*Caroline E. Hous* IN CHARGE OF TEST





## Catalog No. SL-348

(with Catalog No. 3 Single-Stem Hangers)

*An eight foot long, luminous, direct-indirect pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.*

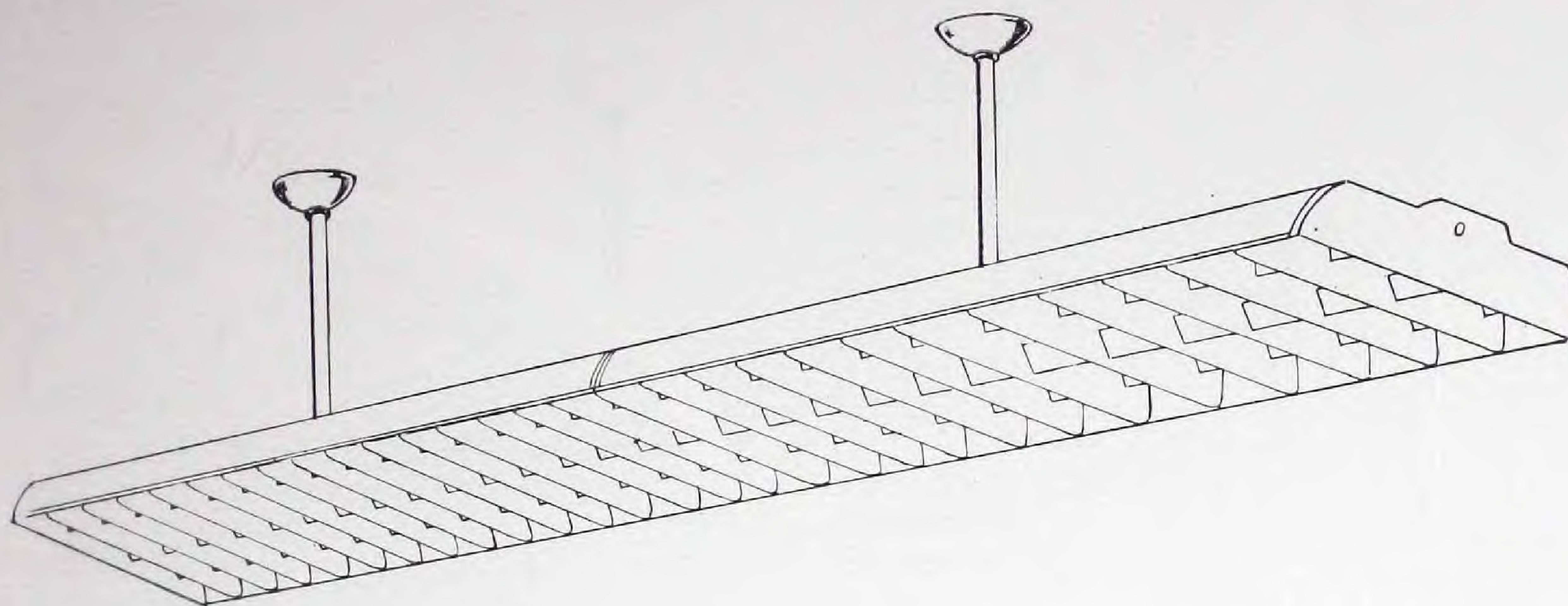
- For use with 4-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Width 16½"—Depth 4¾"—Length 96".
- Net weight 

• Net weight	{	200 ma — 60 lbs	}	less hangers. Hangers shown on page 32.
	300 ma — 66 lbs.			
	425 ma — 78 lbs.			

With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 344 luminaire shown on page 18. The bottom louvers and side glass reflectors, are four feet long and are removable exactly the same as on the Catalog No. 344.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 344 series, the intensities and brightnesses varying directly with the amperage selected.





### **Catalog No. SL-348-M**

**(with Catalog No. 3 Single-Stem Hangers)**

*An eight foot long, direct-indirect, pendant luminaire with curved metal side reflectors—for use in Schoolrooms, Offices and other areas where high efficiency and comfortable low brightnesses are desired.*

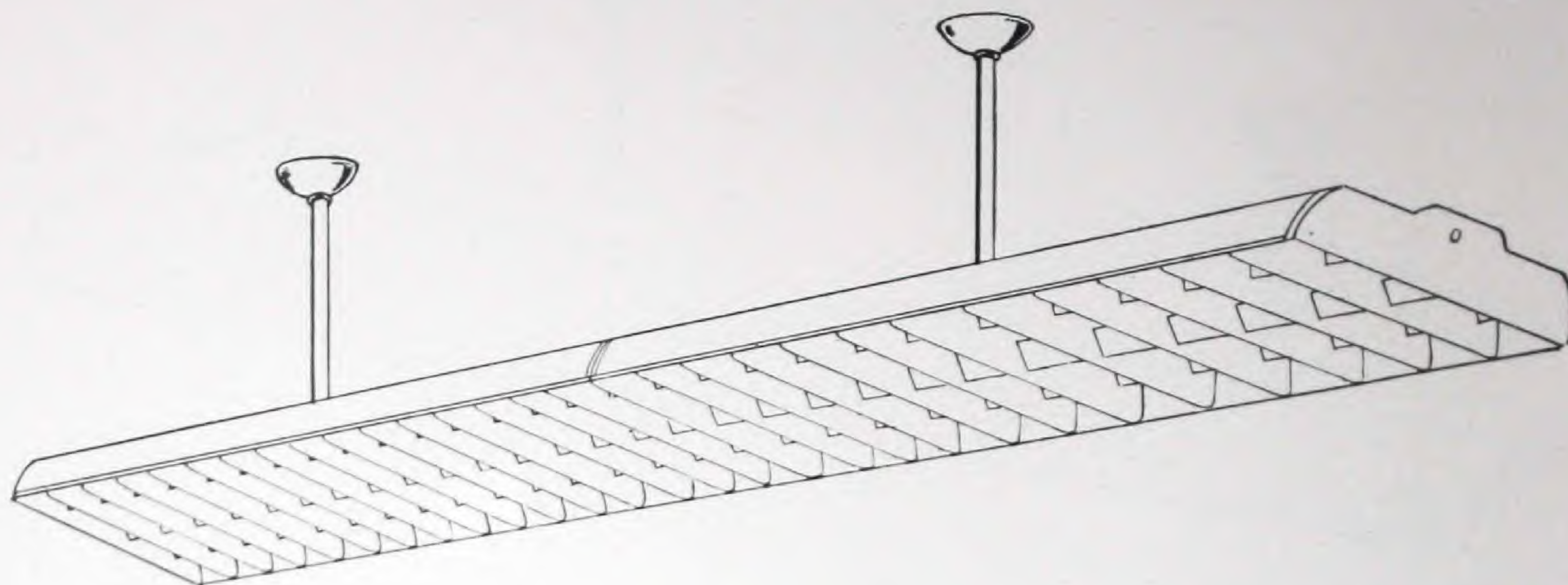
- For use with 4-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Width 16½"—Depth 4¾"—Length 96".
- Net weight 

200 ma — 60 lbs	}	less hangers. Hangers shown on page 32.
300 ma — 66 lbs.		
425 ma — 78 lbs.		

With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 344-M luminaire shown on page 20. The bottom louvers and side metal reflectors are four feet long and are removable exactly the same as on the Catalog No. 344-M.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 344-M series, the intensities and brightnesses varying directly with the amperage selected.





## Catalog No. SL-348 $\frac{1}{2}$

(with Catalog No. 3 Single-Stem Hangers)

*An eight foot long, luminous, direct-indirect pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices and other areas, where high efficiency and comfortable low brightnesses are desired.*

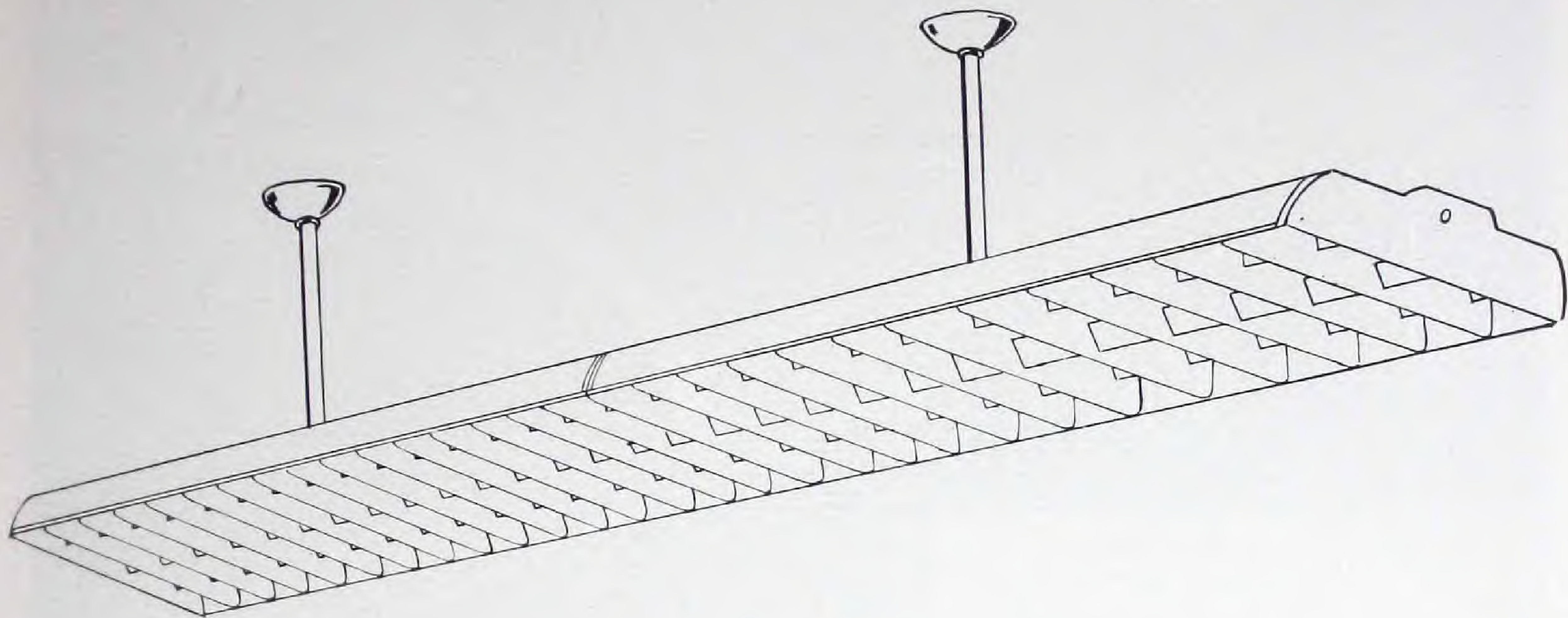
- For use with 4-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Width 16 $\frac{1}{2}$ "—Depth 5 $\frac{1}{2}$ "—Length 96".
- Net weight 

{	200 ma — 68 lbs.	} less hanger. Hangers shown on page 32.
300 ma — 74 lbs.		
425 ma — 86 lbs.		

With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 344 $\frac{1}{2}$  luminaire shown on page 22. The bottom louvers and side glass reflectors are four feet long and are removable exactly the same as on the Catalog No. 344 $\frac{1}{2}$ .

The lighting characteristics of this slimline luminaire are also similar to those of the No. 344 $\frac{1}{2}$  series, the intensities and brightnesses varying directly with the amperage selected.





### **Catalog No. SL-348 $\frac{1}{2}$ -M**

**(with Catalog No. 3 Single-Stem Hangers)**

*An eight foot long, direct-indirect, pendant luminaire with curved metal side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.*

- For use with 4-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded 45° crosswise and 45° lengthwise.
- Width 16 $\frac{1}{2}$ "—Depth 5 $\frac{1}{2}$ "—Length 96".
- Net weight 

{	200 ma — 68 lbs.	} less hanger. Hangers shown on page 32.
	300 ma — 74 lbs.	
	425 ma — 86 lbs.	

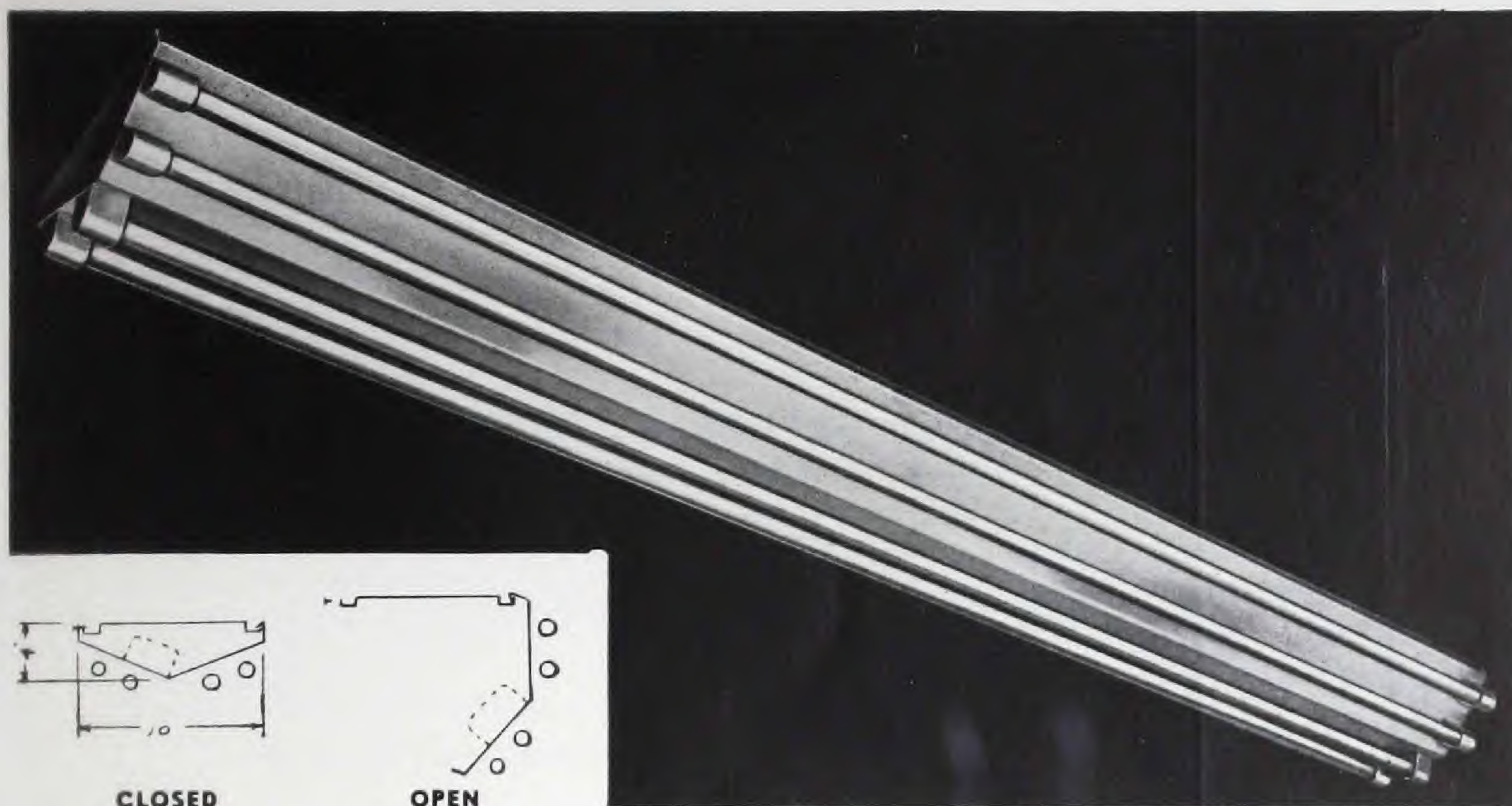
With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 344 $\frac{1}{2}$ -M luminaire shown on page 24. The bottom louvers and side metal reflectors are four feet long and are removable exactly the same as on the Catalog No. 344 $\frac{1}{2}$ -M.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 344 $\frac{1}{2}$ -M series, the intensities and brightnesses varying directly with the amperage selected.









**Catalog No. 746—6 Foot Slimline**  
**Catalog No. 748—8 Foot Slimline**

*An open, unshielded slimline luminaire designed for ease of installation—for those high ceiling market areas where lamp shielding is not essential.*

- For use with 4-72" or 96" T-8 slimline fluorescent lamps.
- Width 10"—Depth 4"—Length 72" or 96".
- Furnished with either 200 ma or 300 ma ballasts.
- Net weight No. 746 { 200 ma — 57 lbs. } No. 748 { 200 ma — 67 lbs. }  
   { 300 ma — 60 lbs. }    { 300 ma — 73 lbs. }
- Construction data shown on pages 33 and 34.

This unit consists of two basic parts—a ceiling plate and a hinged, removable reflector. The ballast and sockets are attached to the reflector. On installation the ceiling plates are first secured to the ceiling or attached to the stem hangers. The reflector is then attached, the wiring connections made, and the reflector closed and secured by means of three knurled headed bolts.





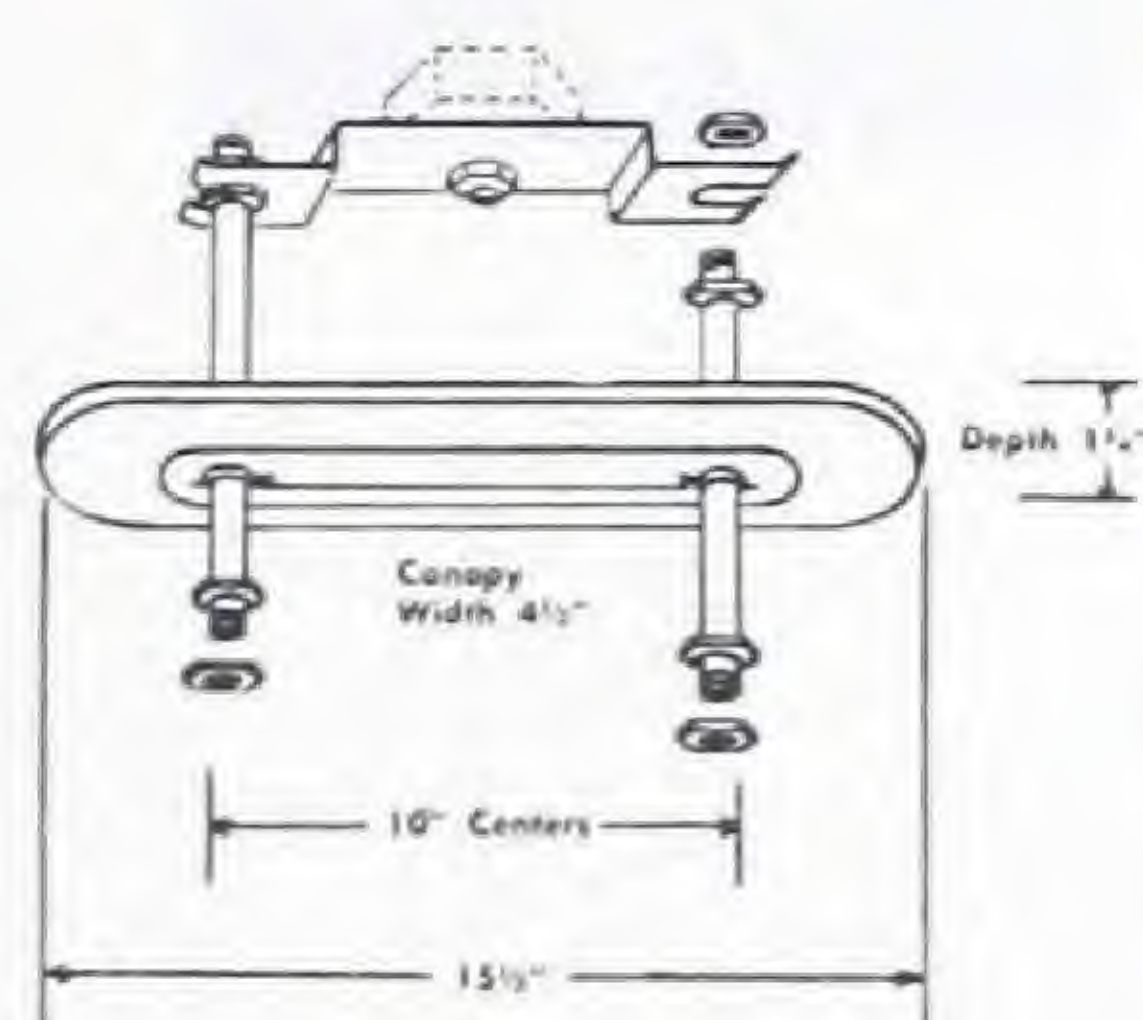
## Single Stem Hanger No. 1

- 1— $\frac{3}{8}$ " Steel tubing 13 $\frac{1}{4}$ " long.
  - 1—5" dia. slip canopy—1 $\frac{5}{8}$ " deep.
  - 1— $\frac{3}{8}$  x  $\frac{3}{8}$  steel hickey.
  - 4— $\frac{3}{8}$  locknuts.
  - 1—fixture joiner set which permits hanging of two adjoining fixtures at their intersection.
- Finished in Silvertone high temperature baked enamel. NET WEIGHT 1 $\frac{1}{2}$  pounds.



## Single Stem Swivel Hanger No. 1-S

- 1— $\frac{3}{8}$ " steel tubing 11 $\frac{1}{2}$ " long.
  - 2— $\frac{1}{4}$ " locknuts.
  - 1—5" dia. canopy 1 $\frac{5}{8}$ " deep.
  - 1—Canopy retaining ring.
  - 1— $\frac{1}{4}$  x 1" iron nipple R. T.
  - 1— $\frac{3}{8}$  x  $\frac{1}{4}$  hickey.
  - 2— $\frac{3}{8}$  locknuts.
  - 1— $\frac{1}{4}$  x  $\frac{3}{8}$  brass swivel.
  - 1—fixture joiner set which permits hanging of two adjoining fixtures at their intersection.
- Finished in Silvertone high temperature baked enamel. NET WEIGHT 1 $\frac{1}{2}$  pounds.



## Twin Stem Hanger No. 2

- 2— $\frac{3}{8}$ " dia. steel tubes 13 $\frac{1}{4}$ " long.
  - 1—15 $\frac{3}{8}$  x 4 $\frac{3}{8}$ " slip canopy 1 $\frac{3}{4}$ " deep.
  - 1—steel cross bar having a 1" deep offset and a  $\frac{3}{4}$ " dia. center hole for stud mounting. This cross-bar has open, flared ends.
- Finished in Silvertone high temperature baked enamel. NET WEIGHT 3 $\frac{1}{4}$  pounds.

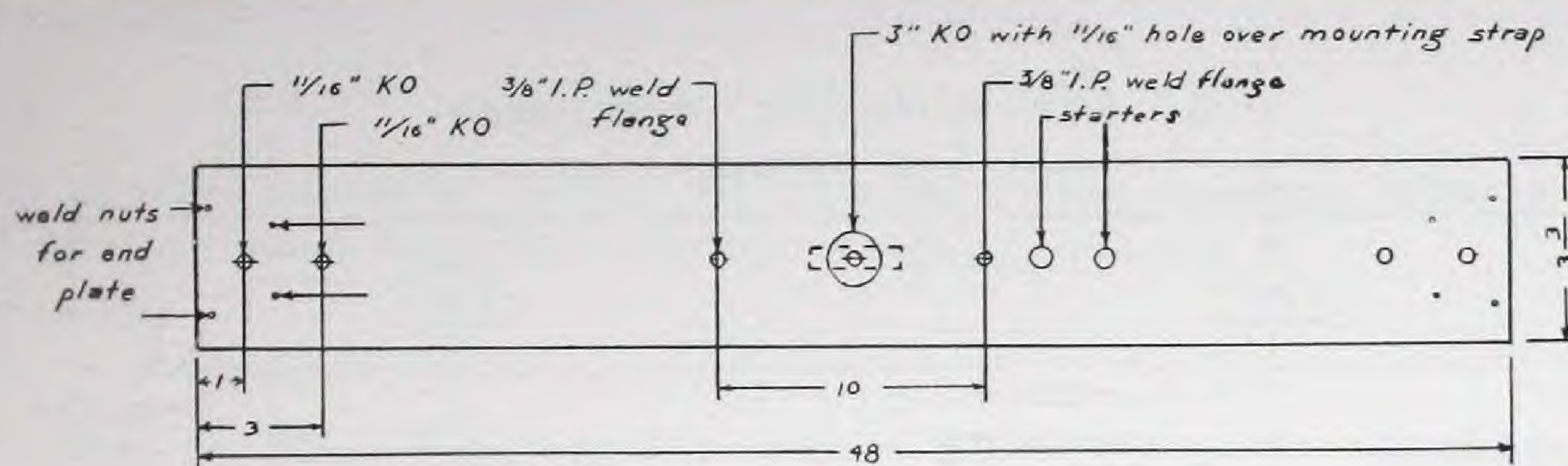


**Single Stem Hanger No. 3** is similar to hanger No. 1 above described except less fixture joiner. For use on those installations where adjoining fixtures are not to be supported at their intersection—particularly for use with slimline fluorescent luminaires. NET WEIGHT 1 $\frac{1}{4}$  pounds.

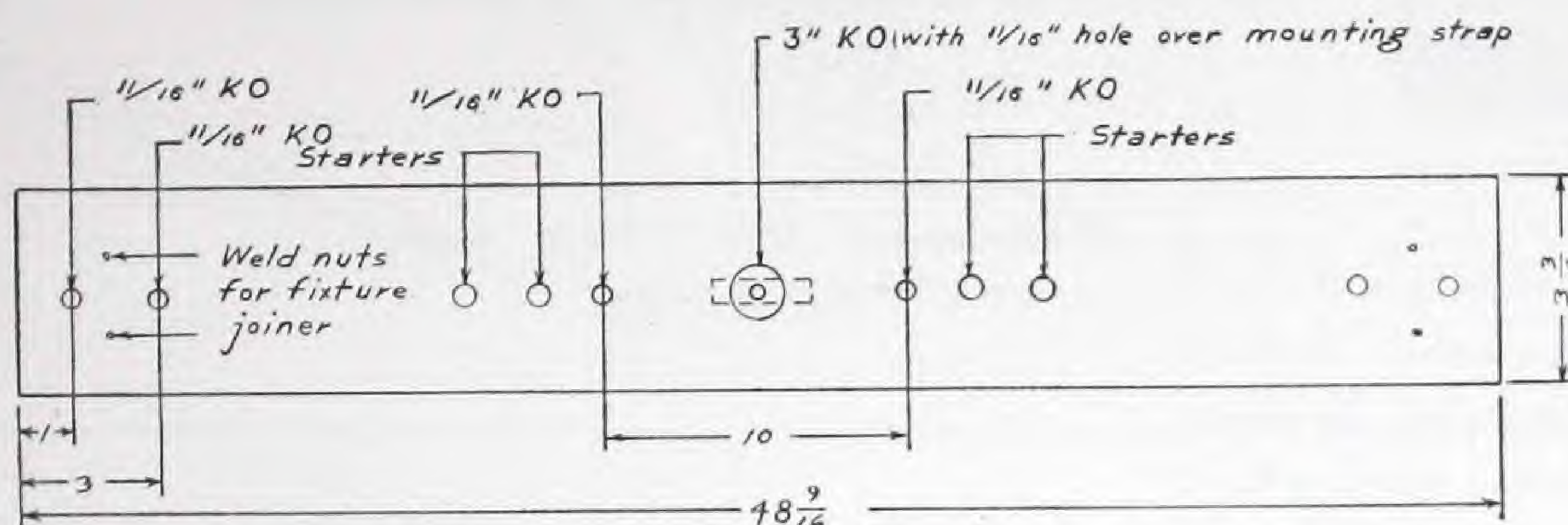


**Single Stem Hanger No. 4** is similar to hanger No. 1-S above described except less fixture joiner. For use on those installations where adjoining fixtures are not to be supported at their intersection—particularly for use with slimline fluorescent luminaires. NET WEIGHT 1 $\frac{1}{4}$  pounds.

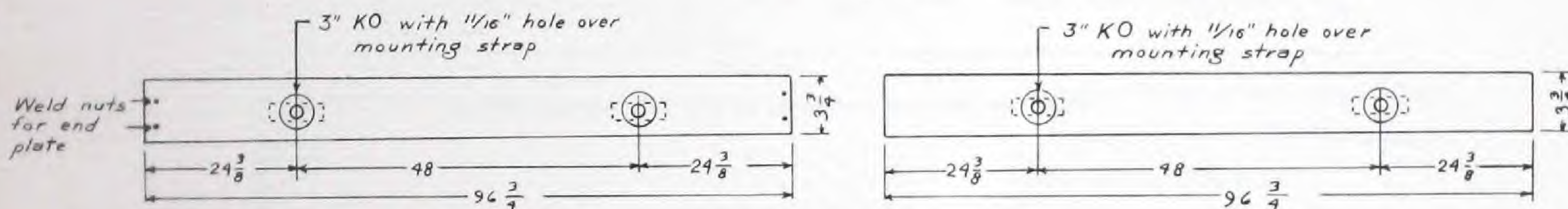




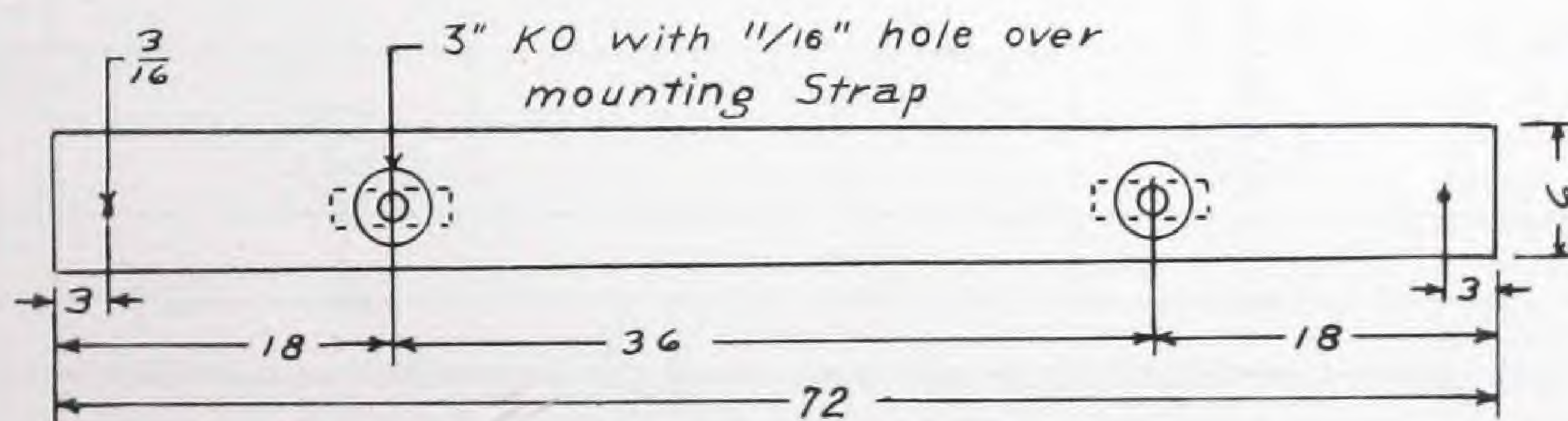
Top view of wiring channel for No. 324, No. 324 $\frac{1}{2}$ , No. 324-M, No. 324 $\frac{1}{2}$ -M, No. 324-S



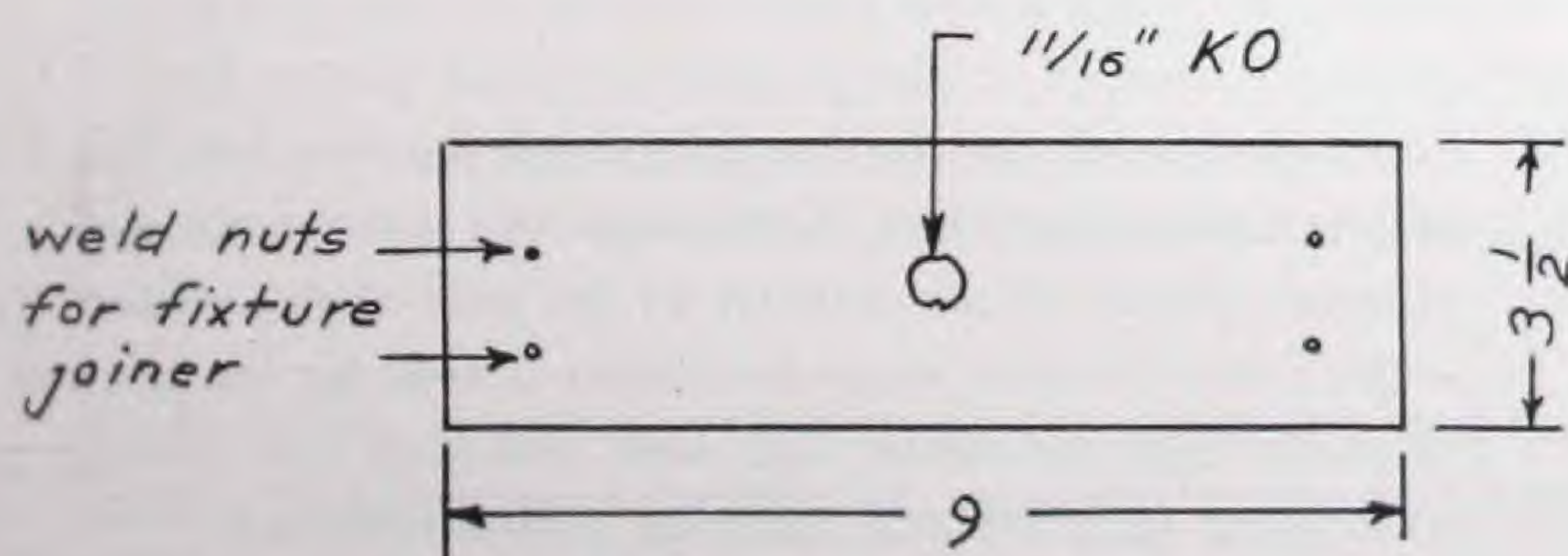
Top view of wiring channel for No. 344, No. 344-M, No. 344 $\frac{1}{2}$ , No. 344 $\frac{1}{2}$ -M



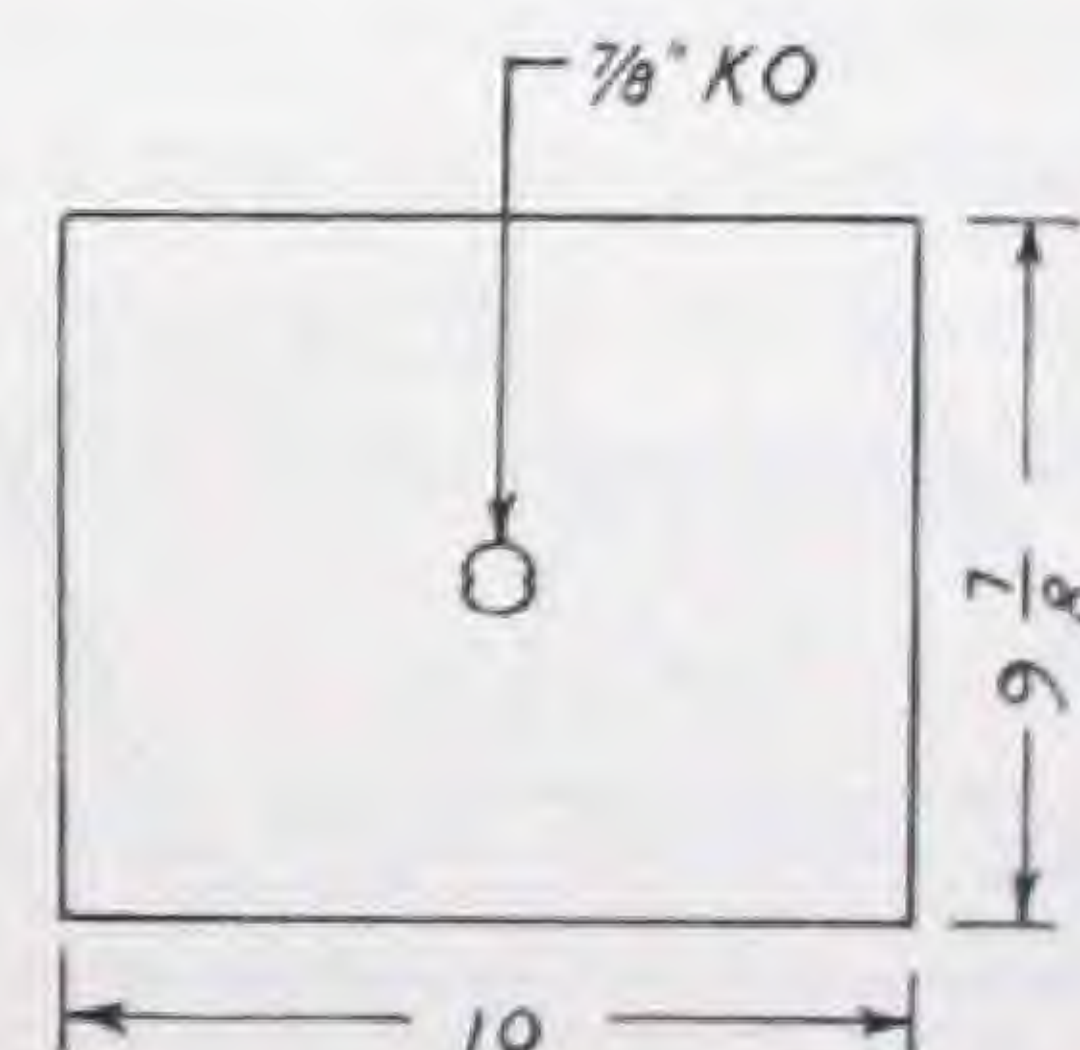
Top view of wiring channel for SL-328, SL-328 $\frac{1}{2}$ , SL-328-M, SL-328 $\frac{1}{2}$ -M, SL-348, SL-348 $\frac{1}{2}$ , SL-348-M, SL-348 $\frac{1}{2}$ -M



Top view of wiring channel for 726 Slimline fixture.

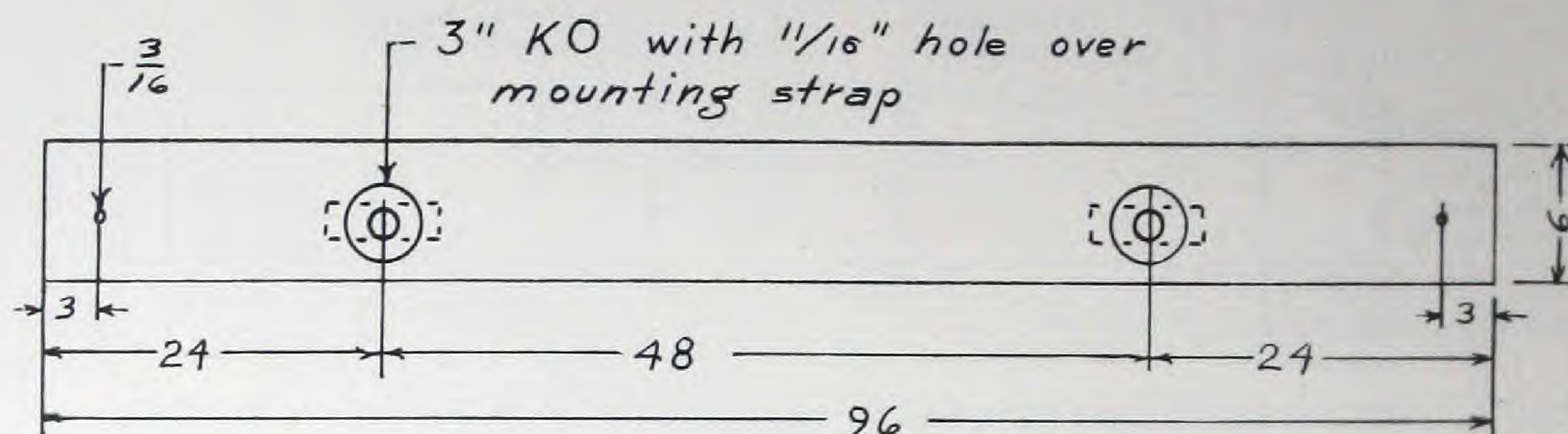


Top view of No. 150, No. 250 Downlite

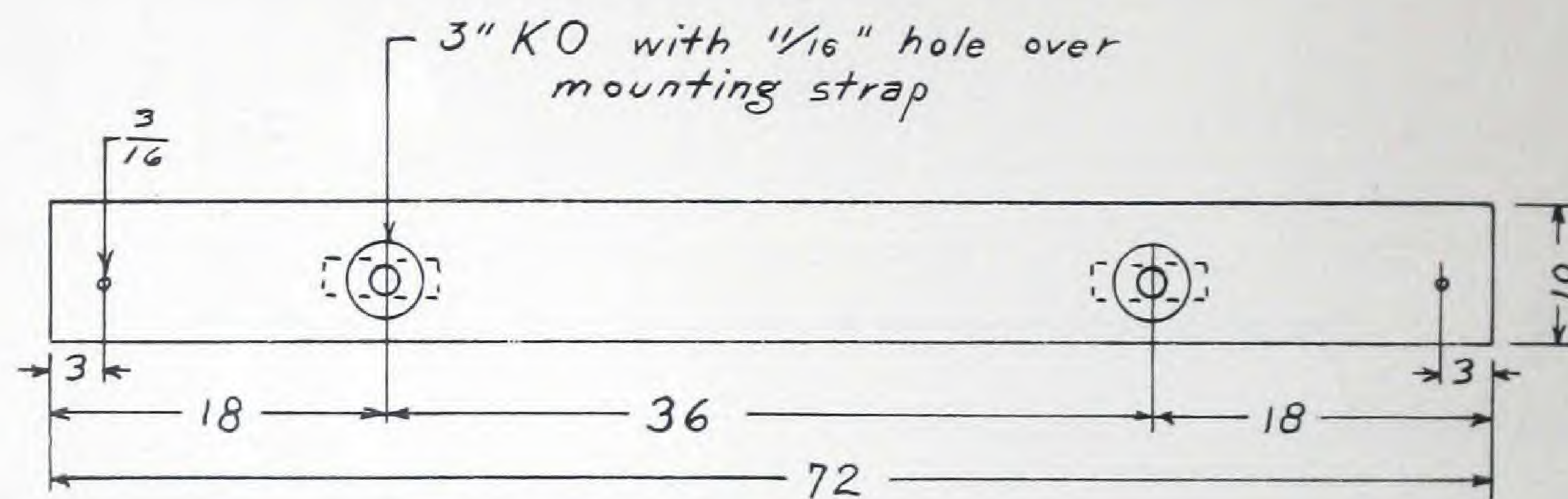


Top view of No. 950 Troffer Downlite

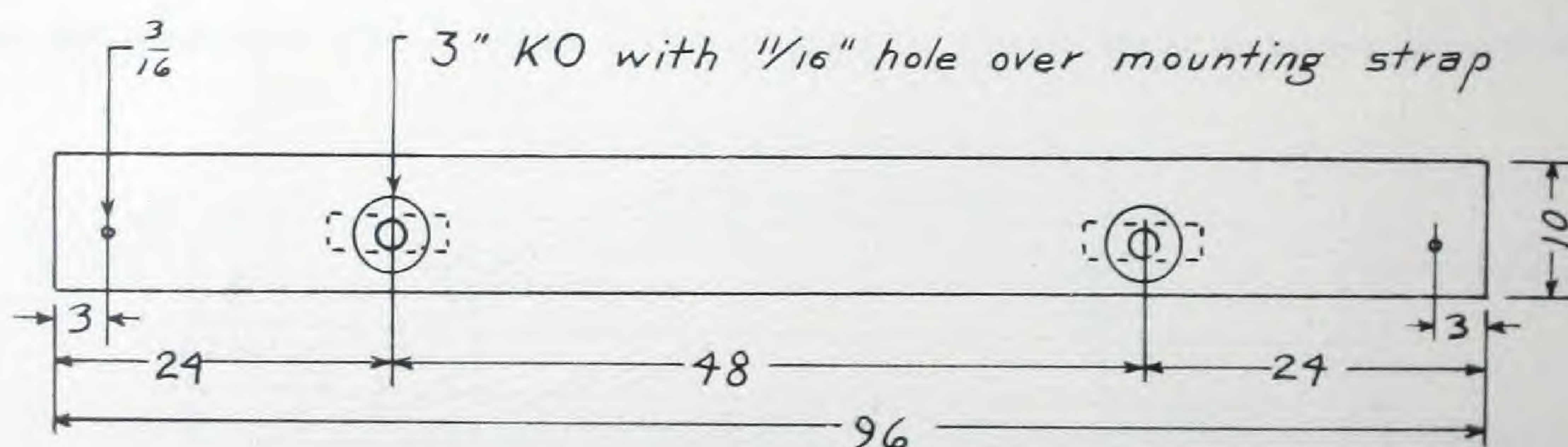




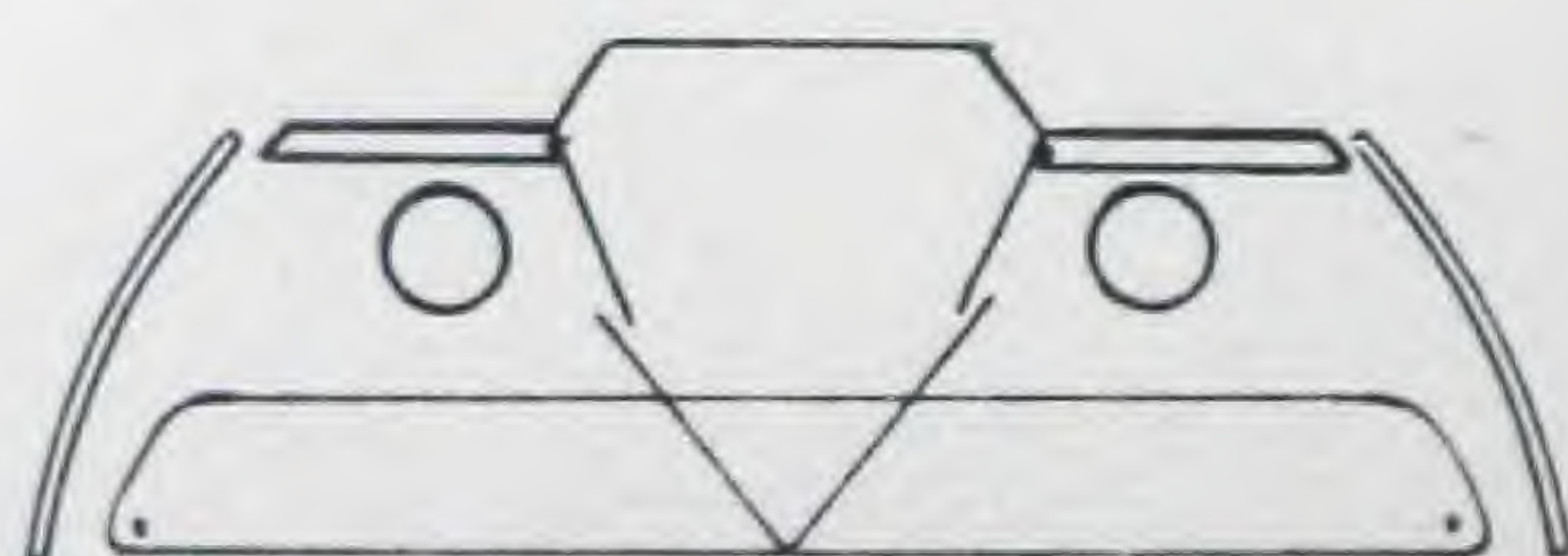
Top view of wiring channel for No. 728 Slimline Fixture



Top view of wiring channel of No. 746 Slimline Fixture



Top view of wiring channel of No. 748 Slimline Fixture



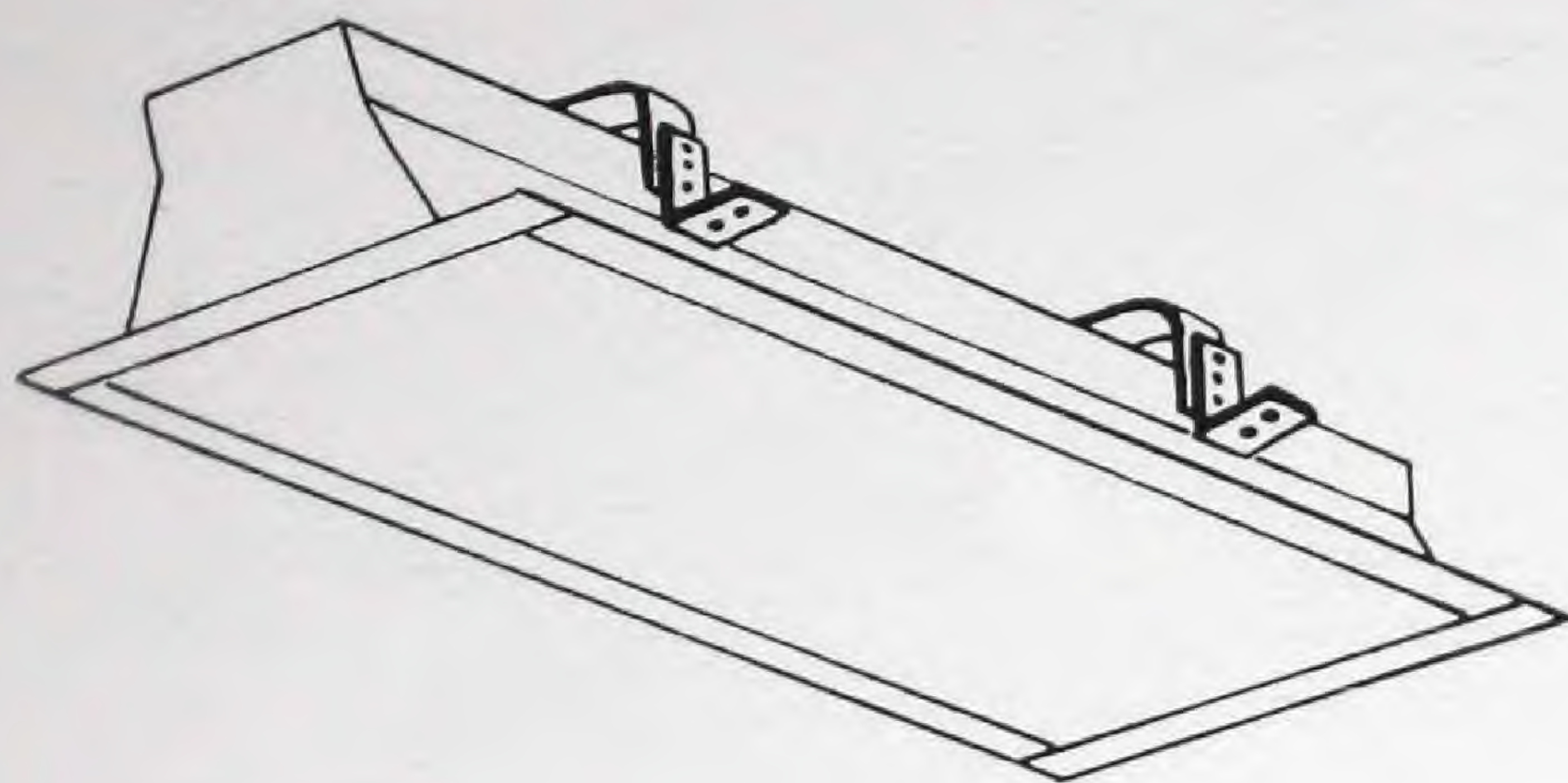
Top reflector plates are suggested for the No. 324 and No. 344 series luminaires when luminaires are surface mounted. These reflector plates attach directly to the side of the wiring channel—the outer beveled edge providing a seat for the curved glass or metal side reflectors. The side reflectors are readily removable even with the top reflector plates installed.



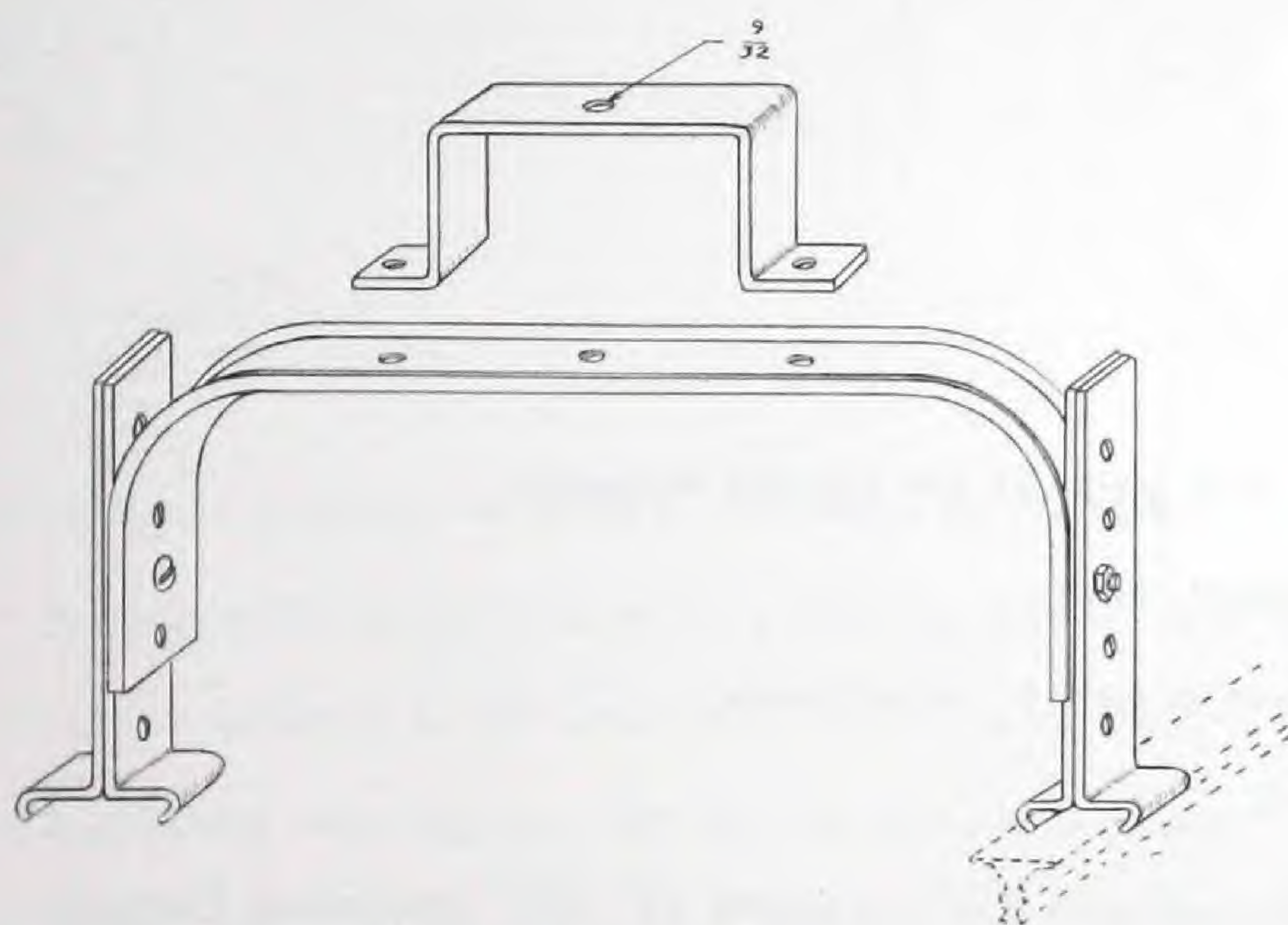
# GILL

## *planned lighting troffers*

The simplified construction and assembly of all Gill recessed fluorescent Troffers assures an economical and speedy installation in any type of ceiling construction.



Two adjustable  $\frac{1}{4}$ " x  $1\frac{3}{8}$ " steel channel U-bar hangers are supplied with each four foot Troffer. These permit adjustment from  $\frac{3}{4}$ " to  $5\frac{1}{2}$ " to allow for the thickness of the accoustical or plaster ceiling.



Special T-bar hanger assembly Catalog No. 6 can be furnished. See price Schedule.

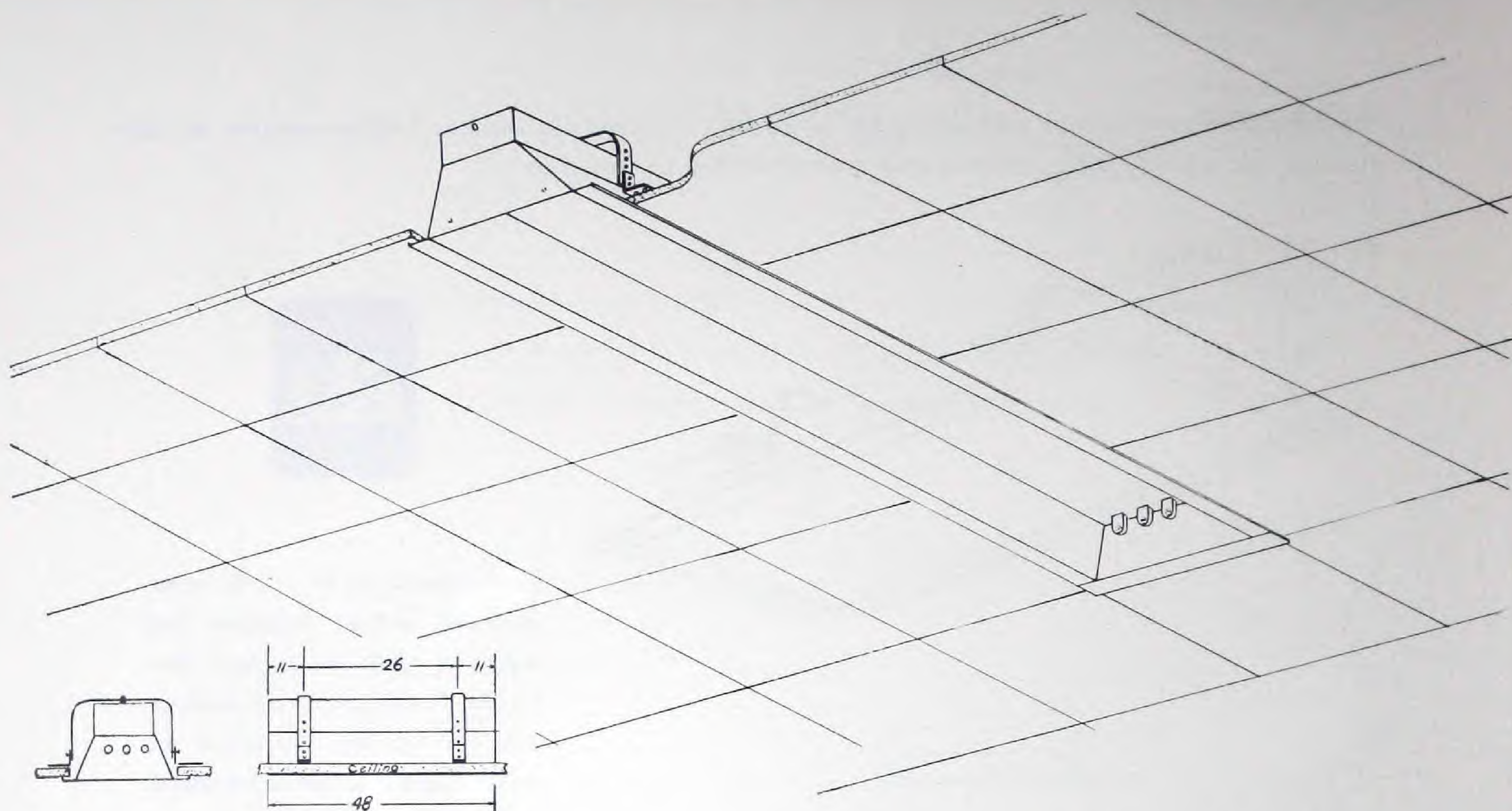
Plaster rings are available for all Troffers (See page 43).

The wiring channels and reflectors are formed of 18 gauge bonderized steel. The reflectors are finished in high temperature "baked-on" white enamel. The wiring channels are finished in "baked-on" gray enamel. The basic type Troffers are complete with end plates and end ceiling finishing flanges for use in individual unit installations. The extension type Troffers do not include end plates or end ceiling finishing flanges; but do include the necessary channel connecting straps and reflector connecting stringers for continuous row installations. NOTE: Each continuous row installation requires one basic type Troffer plus the number of additional extension type Troffers to complete the "run."

Union wired, complete with high power factor two and three lamp ballasts, FS-40 starters, and carries Underwriters Laboratories' recessed Fluorescent Equipment Label.



# GILL *planned lighting troffers*



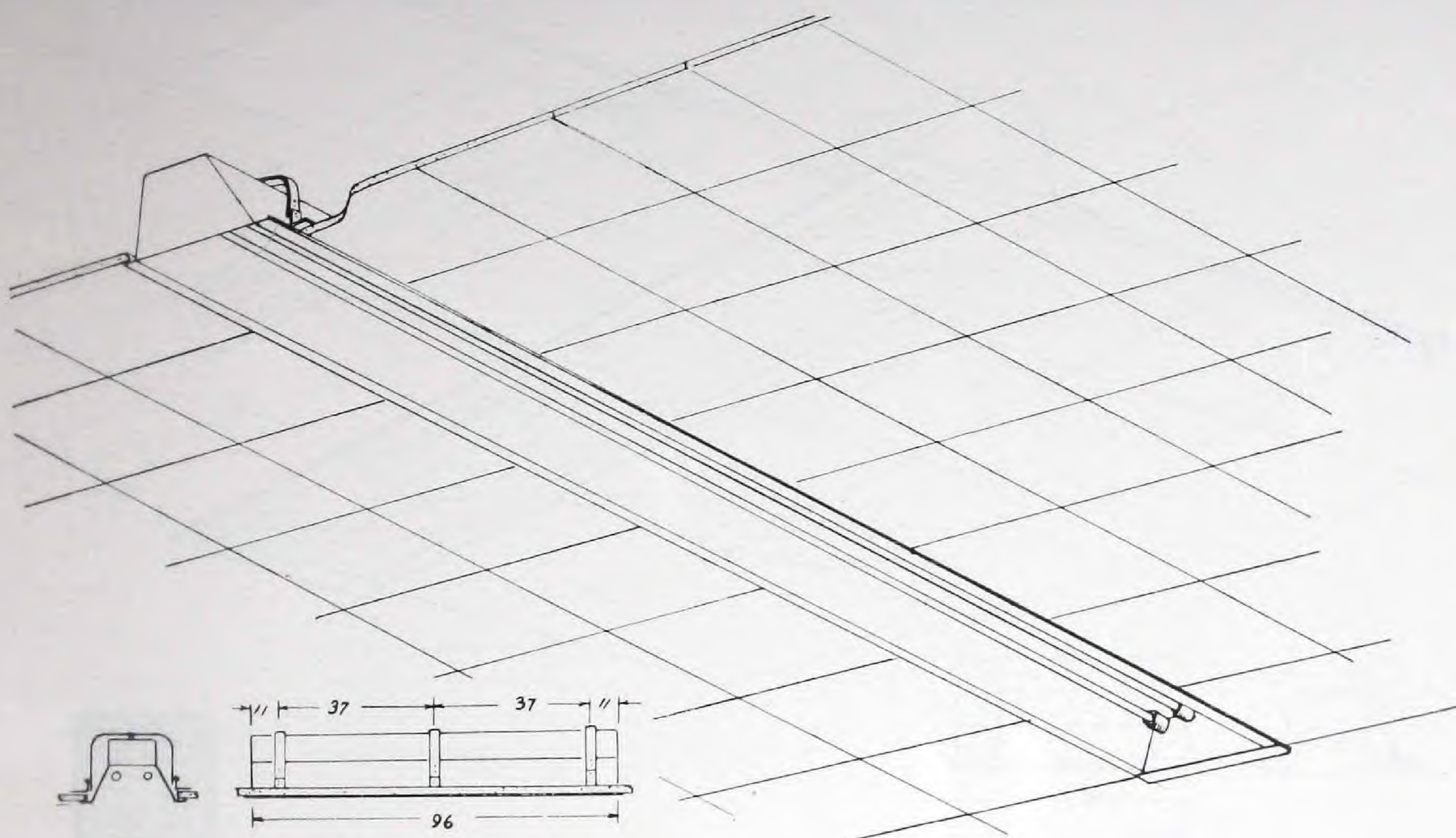
**OPEN  
FLANGE TYPE**  
2 and 3 Lamp

- Hangers included as shown. See page 35 for special hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 35° crosswise and 0° lengthwise.
- Equipped with FS-40 starters.
- Width 13" (including Flange)—Depth 7 1/4"—Length 48" (51" including Flange).
- All Troffers will fit a 12" x 48" ceiling opening.

CATALOG NUMBER	DESCRIPTION	NO. LAMPS	NET WEIGHT
9802-B	Basic Type	2	35
9802-E	Extension	2	35
9803-B	Basic Type	3	39
9803-E	Extension	3	39



# GILL *planned lighting troffers*



**OPEN  
FLANGE TYPE**  
2 Lamp 8 Ft. Slimline

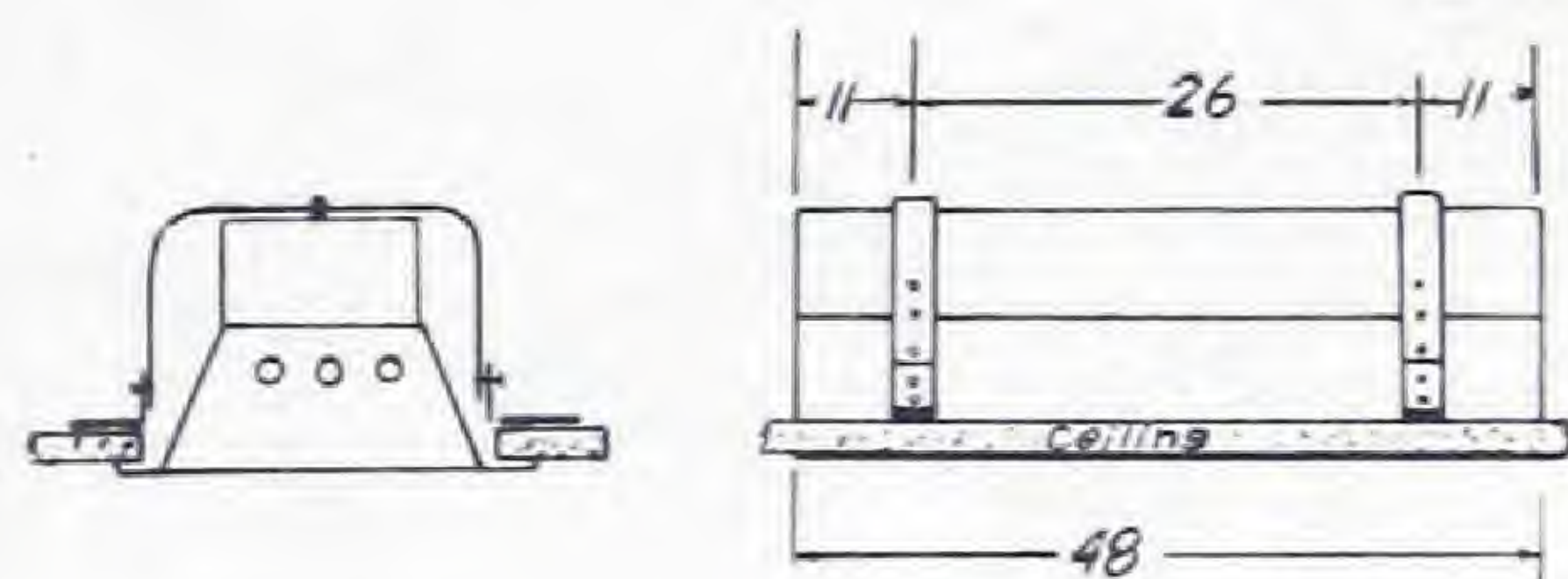
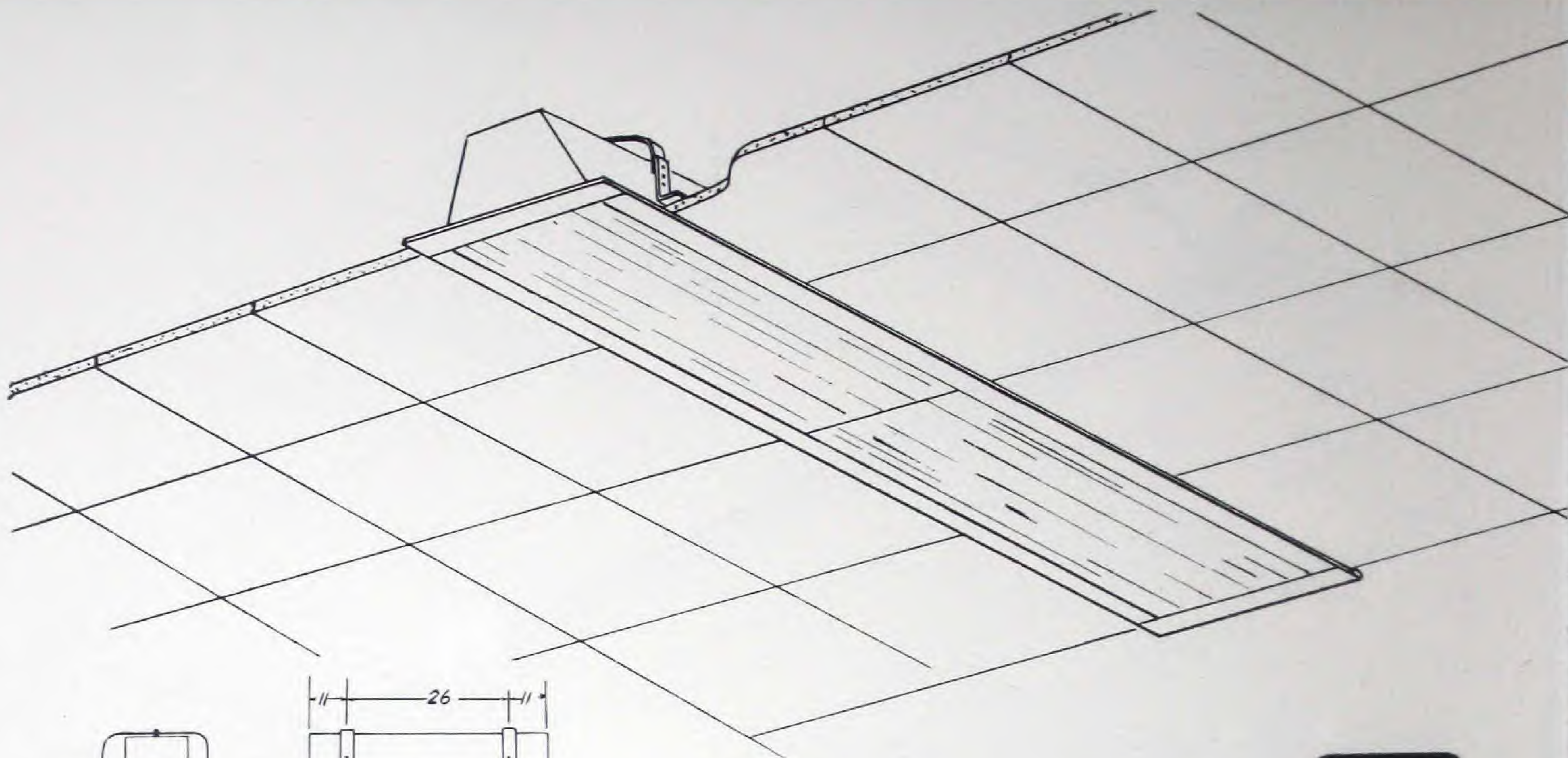
- Hangers included as shown. See page 35 for special hangers.
- For use with 2—96" T-8 or T-12 Slimline fluorescent lamps.
- Lamps shielded to 35° crosswise and 0° lengthwise.
- Furnished with 200 ma, 300 ma, or 425 ma ballasts.
- Width 13" (including Flange)—Depth 7½"—Length 96" (99" including Flange).
- All Troffers will fit a 12" x 96" ceiling opening.

CATALOG NUMBER	DESCRIPTION	NO. LAMPS	NET WEIGHT
SL-98028-B	Basic 300 ma	2	61¾ lbs.
SL-98028-B	Basic 200 ma	2	59 lbs.
SL-98028-E	Extension 300 ma	2	61¾ lbs.
SL-98028-E	Extension 200 ma	2	59 lbs.



# GILL

## *planned lighting troffers*



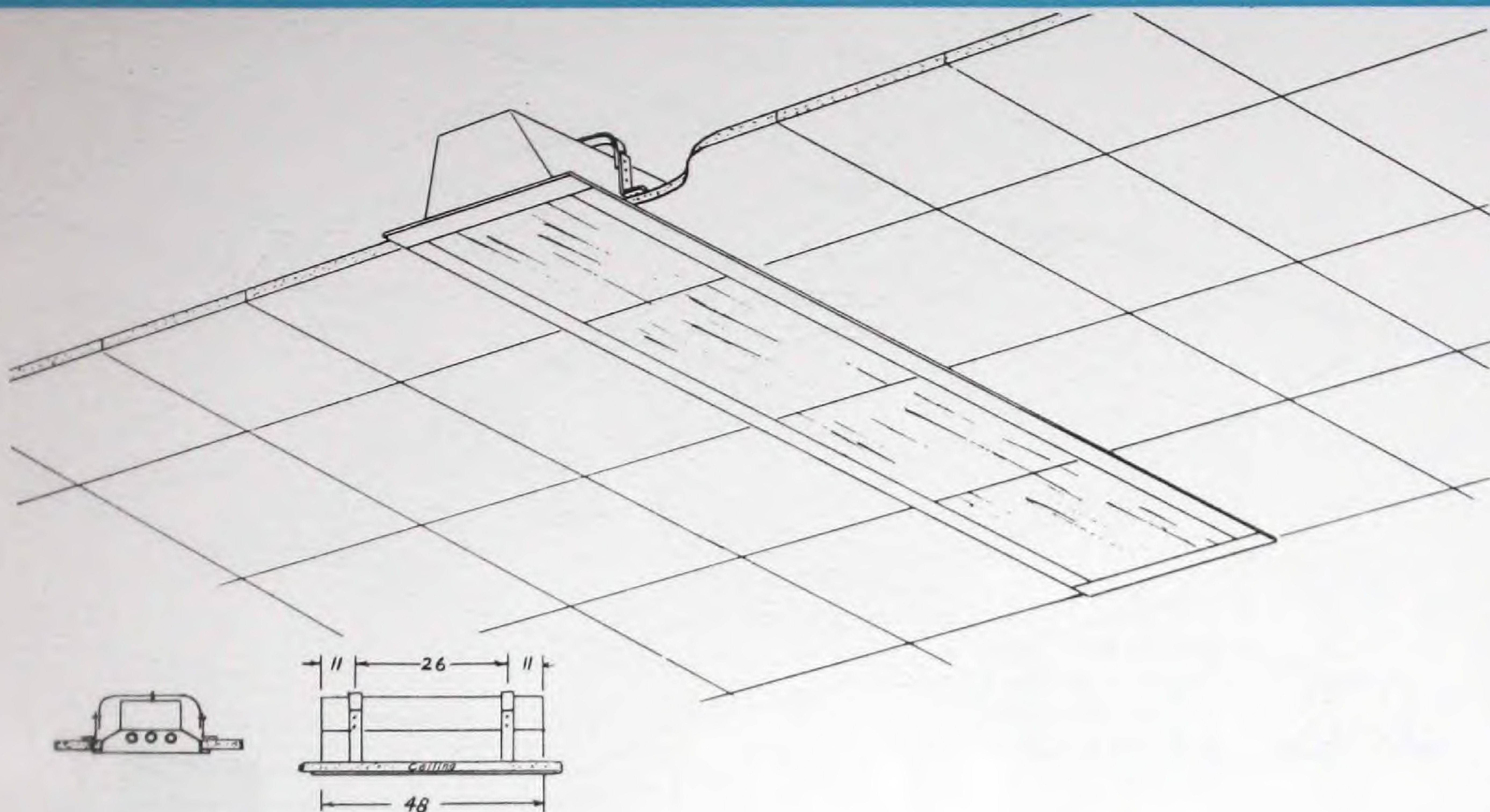
**FLAT  
RIBBED GLASS  
FLANGE TYPE  
2 and 3 Lamps**



- Hangers included as shown. See page 35 for special Hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 90° crosswise and 90° lengthwise.
- Equipped with FS-40 starters.
- Width 13<sup>3</sup>/<sub>4</sub>" (including Flange)—Depth 6<sup>1</sup>/<sub>2</sub>"—Length 48" (51" including Flange).
- All Troffers will fit a 12" x 48" ceiling opening.
- See page 45 for photometric data.

CATALOG NUMBER	DESCRIPTION	NO. LAMPS	NET WEIGHT
9832-B	Basic Type	2	44
9832-E	Extension Type	2	42
9833-B	Basic Type	3	48
9833-E	Extension Type	3	46





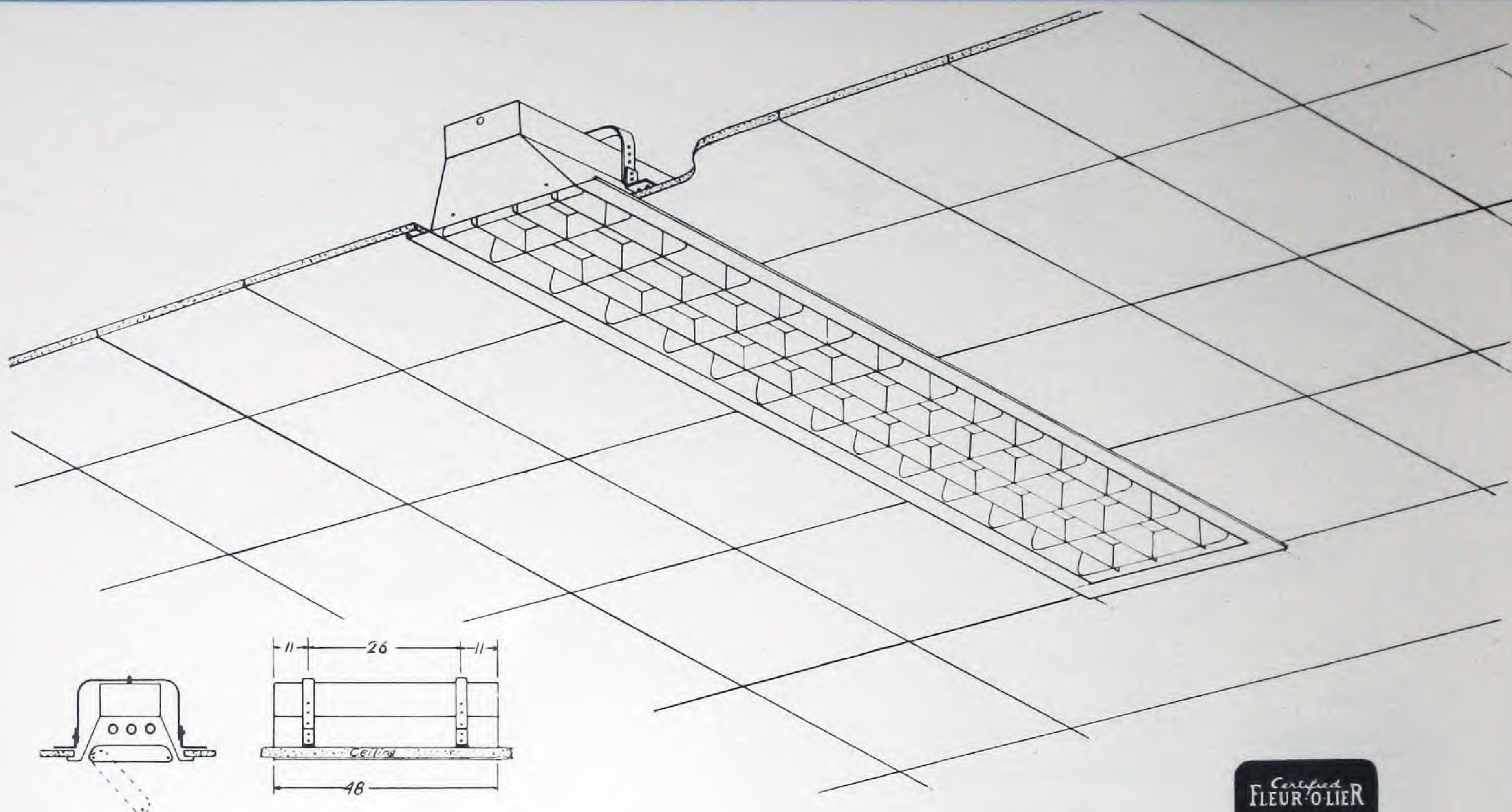
FLAT  
GLASS LENS  
FLANGE TYPE  
2 and 3 Lamp

- Hangers included as shown. See page 35 for special Hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 90° crosswise and 90° lengthwise.
- Equipped with FS-40 starters.
- Width 13<sup>3</sup>/<sub>4</sub>" (including Flange)—Depth 6<sup>1</sup>/<sub>2</sub>"—Length 48" (51" including Flange).
- All troffers will fit a 12" x 48" ceiling opening.

CATALOG NUMBER	DESCRIPTION	NO. LAMPS	NET WEIGHT
9842-B	Basic Type	2	39 <sup>1</sup> / <sub>2</sub> lbs.
9842-E	Extension Type	2	39 <sup>1</sup> / <sub>2</sub> lbs.
9843-B	Basic Type	3	43 <sup>1</sup> / <sub>2</sub> lbs.
9843-E	Extension Type	3	43 <sup>1</sup> / <sub>2</sub> lbs.



# GILL *planned lighting troffers*



**LOUVRED  
FLANGE TYPE  
2 and 3 Lamp**

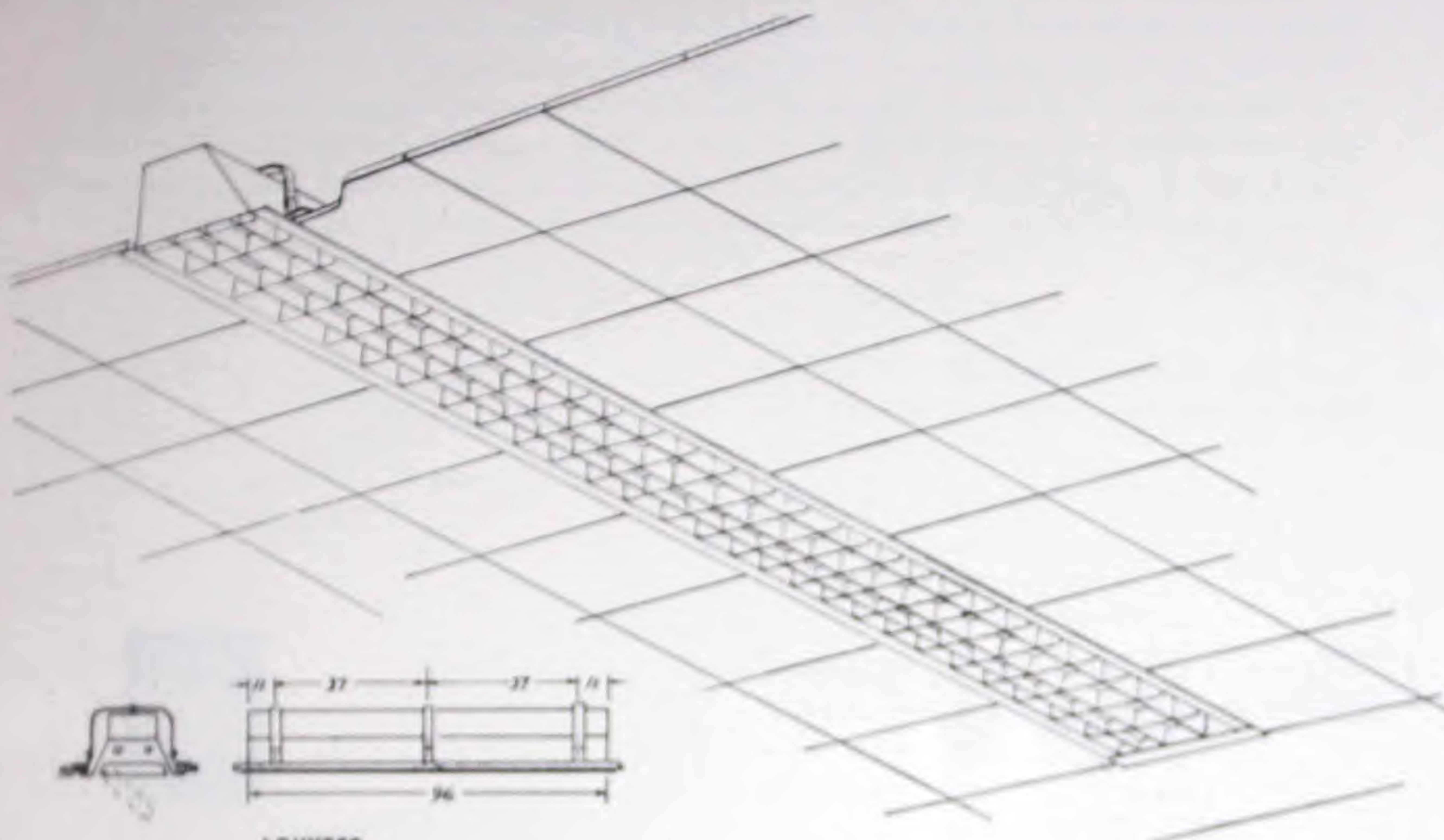


- Hangers included as shown. See page 35 for special Hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 35° crosswise and 25° lengthwise.
- Equipped with FS-40 starters.
- Width 13" (including Flange)—Depth 7 $\frac{1}{4}$ "—Length 48" (51" including Flange).
- All troffers will fit a 12" x 48" ceiling opening.
- See pages 46 and 47 for photometric data.

CATALOG NUMBER	DESCRIPTION	NO. LAMPS	NET WEIGHT
9852-B	Basic Type	2	41 lbs.
9852-E	Extension Type	2	38 lbs.
9853-B	Basic Type	3	45 lbs.
9853-E	Extension Type	3	42 lbs.



# GILL *planned lighting troffers*



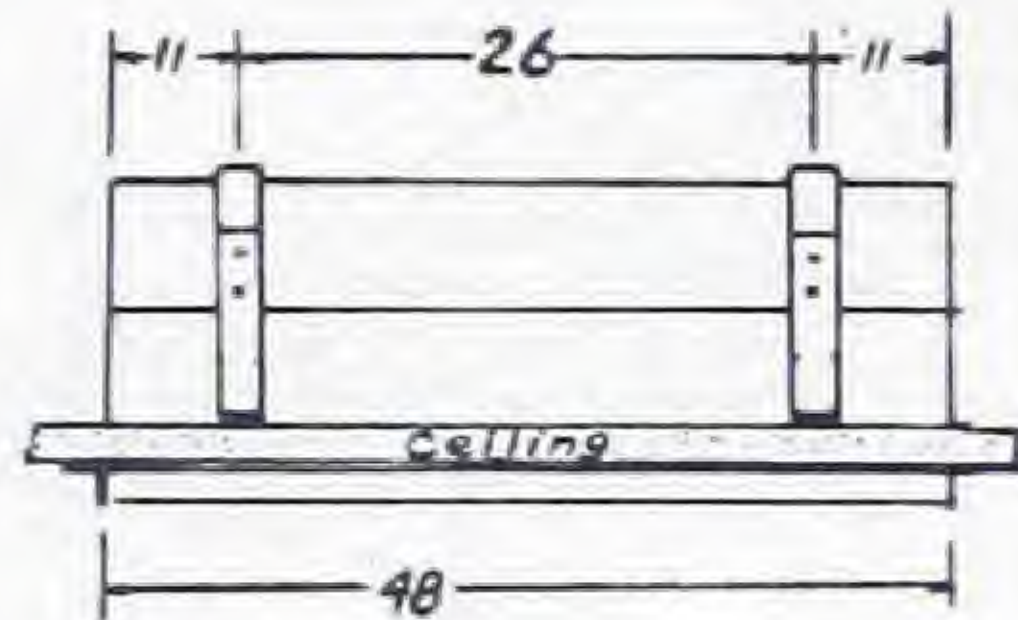
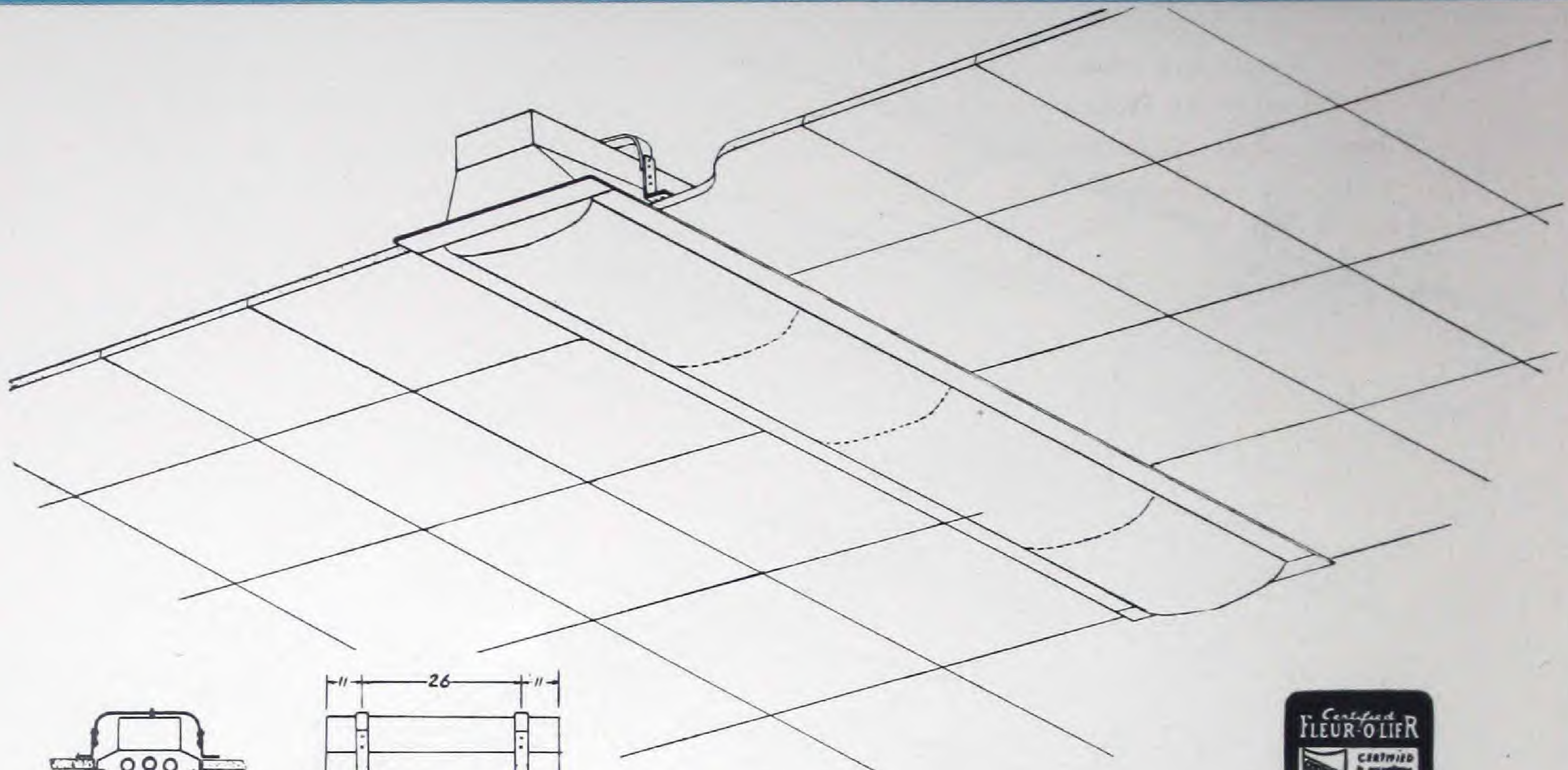
LOUVRED  
FLANGE TYPE  
2 Lamp 8' Slimline

- Hangers included as shown. See page 35 for special Hangers.
- For use with 2—96" T-8 or T-12 slimline fluorescent lamps.
- Lamps shielded to 35° crosswise and 25° lengthwise.
- Furnished with 200 ma, 300 ma, or 425 ma.
- Width 13" (including Flange)—Depth 7½"—Length 96" (99" including Flange).
- All troffers will fit a 12" x 96" ceiling opening.

CATALOG NUMBER	DESCRIPTION	NO. LAMPS	NET WEIGHT
SL-98528-B	Basic 300 ma	2	74 ¼ lbs.
SL-98528-B	Basic 200 ma	2	72 lbs.
SL-98528-E	Extension 300 ma	2	74 ¼ lbs.
SL-98528-E	Extension 200 ma	2	72 lbs.



# GILL *planned lighting troffers*



**CURVED  
GLASS LENS  
FLANGE TYPE  
2 and 3 Lamp**



- Hangers included as shown. See page 35 for special Hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 90° crosswise and 90° lengthwise.
- Equipped with FS-40 starters.
- Width 13 $\frac{1}{4}$ " (including Flange)—Depth 6"—Length 48" (51" including Flange).
- All troffers will fit a 12" x 48" ceiling opening.
- See pages 48 and 49 for photometric data.

CATALOG NUMBER	DESCRIPTION	NO. LAMPS	NET WEIGHT
9862-B	Basic Type	2	50 lbs.
9862-E	Extension Type	2	48 lbs.
9863-E	Basic Type	3	54 lbs.
9863-E	Extension Type	3	52 lbs.



Plaster frames are available for all Gill recessed Troffers. The various combinations shown permit their use whether the Troffers are installed individually or in continuous runs. These frames are designed to allow ample clearance for the Troffer equipment and, of course, can be used as a plaster ground. The wide flanges of all Gill Troffer units completely cover these plaster rings upon installation. The Plaster frames are die formed of rust resisting  $\frac{3}{4}$ " x  $\frac{3}{4}$ " x  $\frac{3}{8}$ " steel amply provided with  $\frac{1}{4}$ " holes in the horizontal flange member for attachment to the metal lath or furring.



Catalog No. 9880 plaster frame for individual four foot Troffer. Inside dimensions  $12\frac{3}{8}$ " x  $48\frac{1}{2}$ ".

Net weight 6 lbs.



Catalog No. 9880-E plaster frame (one end open) for use on continuous line installations. Inside dimensions  $12\frac{3}{8}$ " x  $48\frac{1}{2}$ ".

Net weight 5 lbs.



Catalog No. 9882-R 96" long extension rail. Net weight 5 lbs.



Catalog No. 9880-R 48" long extension rail. Net weight  $2\frac{1}{2}$  lbs.



Catalog No. 9880-S spacer template for use when installing plaster frames. Net weight  $\frac{1}{2}$  lb.



Catalog No. 9880-C extension rail connector. Net weight  $\frac{1}{2}$  lb.



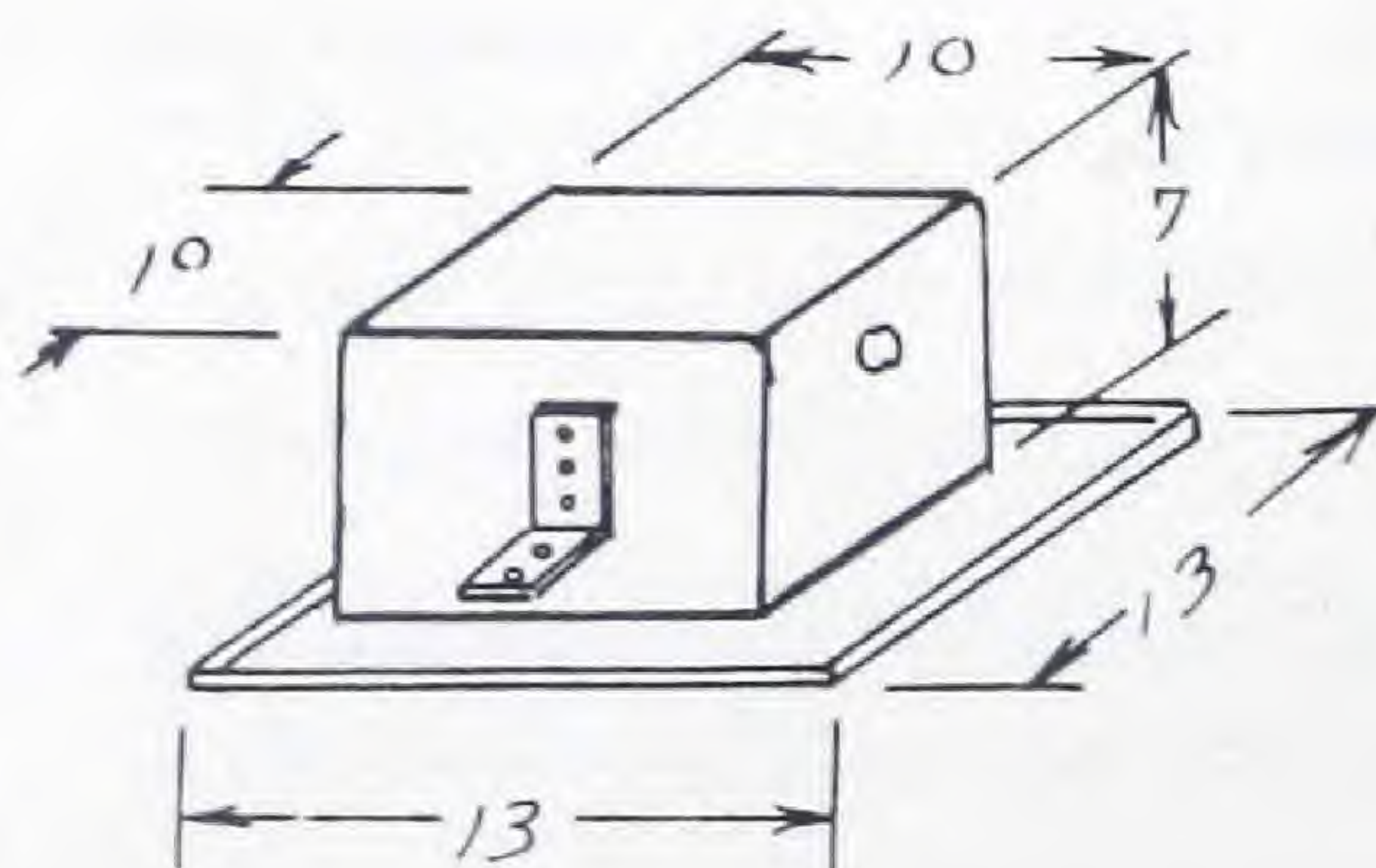


**Catalog No. 950**



**Catalog No. 950**  
(with No. L-150 Louver)

An all metal "Down-Lighting" recessed unit having universal gimbel ring adjustment, using the 150 watt PAR "side-prong" base incandescent lamp. Bottom cover finished in high temperature "baked-on" white enamel, recessing box finished in baked gray enamel. For use in conjunction with the foregoing fluorescent Troffer series, for attachment between units, at the ends of continuous rows, or separately.



Catalog No. 950-B—Individual unit (as shown). For use when installed separately from the Troffer units. Adjustable angle brackets permit rapid installation.  $\frac{3}{4}$ " knockout on sides for wiring entrance.

Catalog No. 950-C—End Unit—for use at the ends of Troffer units. (Nos. 9852, 9853, 9802, 9803). Recessing box remains same size as shown but bottom cover measures 13" wide by 11  $\frac{7}{8}$ " long.

Catalog No. 950-E—Center Unit, for use between Troffers Nos. 9852-9853, 9802-9803, when used in a continuous row. Recessing box remains same as shown, but bottom cover measures 13" wide by 10" long.

Catalog No. 951-C—End Unit, for use at the ends of Troffers Nos. 9862, 9863, 9832, 9833, 9842, 9843. Recessing box remains same size as shown, but bottom cover measures 11  $\frac{7}{8}$ " wide by 13  $\frac{3}{8}$ " long.

Catalog No. 951-E—Center unit, for use between Troffers Nos. 9862-9863, 9832-9833, 9842-9843. Recessing box remains same size as shown; but bottom cover measures 10" wide by 13  $\frac{7}{8}$ " long.







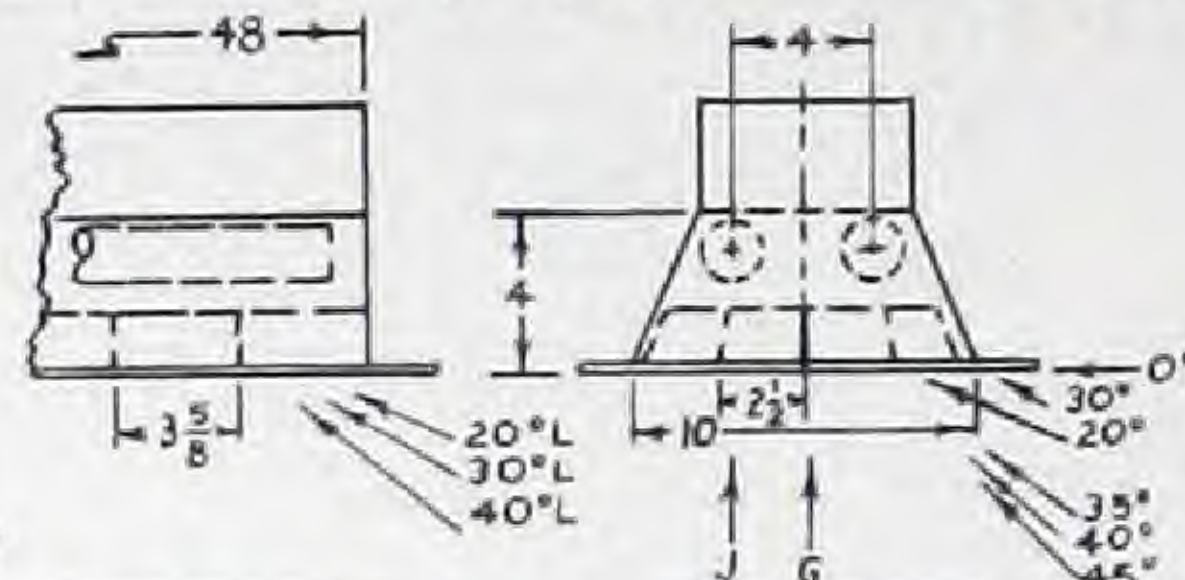
## REPORT Electrical Testing Laboratories, Inc.

Report No. 330021 Order No. 19487-L Plate No. 55546 Date February 2, 1949

CANDLEPOWER DISTRIBUTION  
CAT. NO. 9852B RECESSED FLUORESCENT LUMINAIRE\*

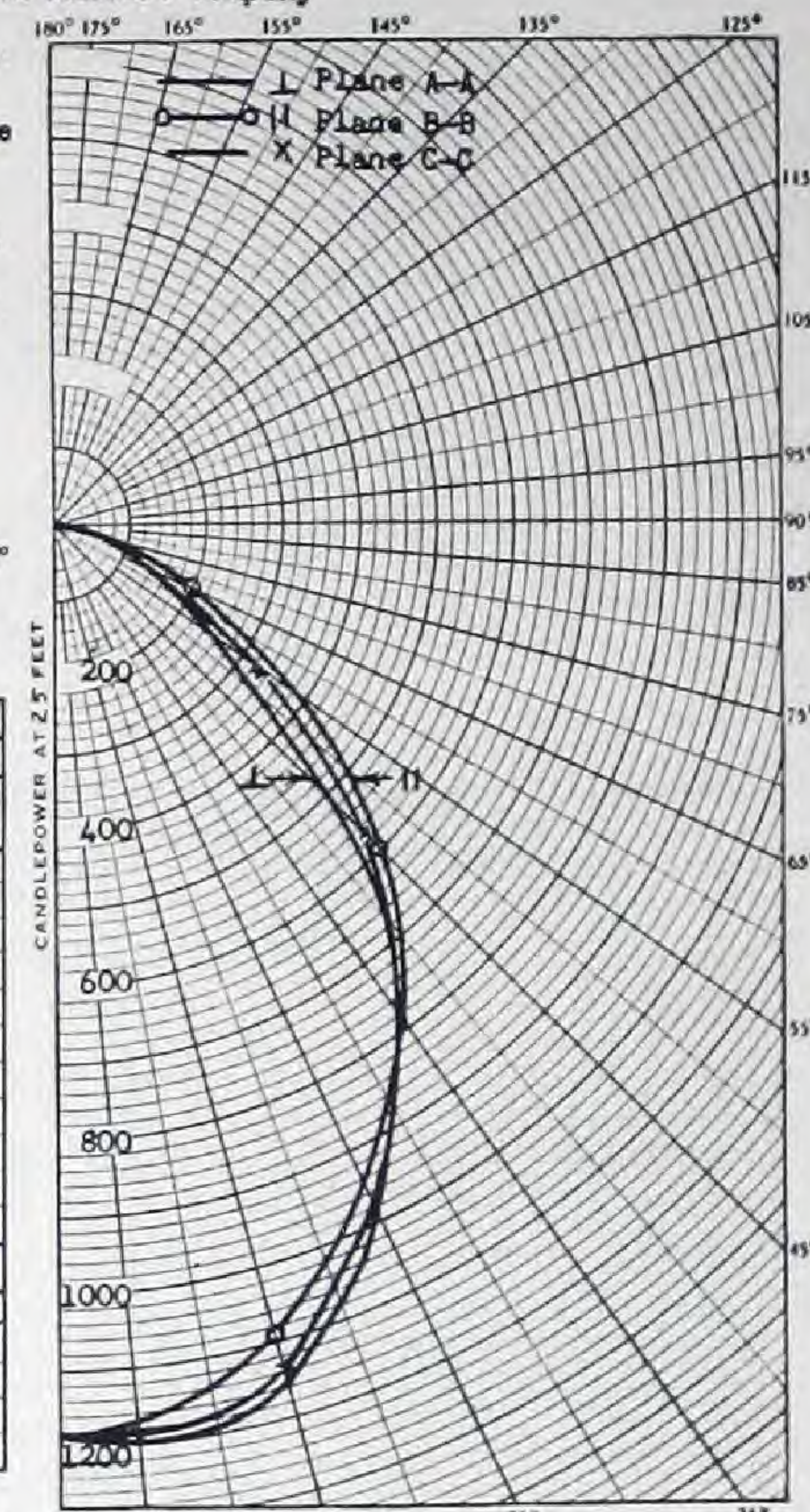
TYPE - D-35-20-2-R  
Tested under Fleur-O-Lier Specifications  
Rendered to Gill Glass and Fixture Company

Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12  
White Fluorescent.  
Unit - Synthetic enameled metal housing and eggcrate  
louver, reflectance 0.88.  
Test - Candlepower distribution in three vertical  
planes intersecting in the center of the unit; A-A  
normal, B-B parallel and C-C 45° to the tubes.  
Maximum temperature rise - 58 C; specified max. 65 C



\*ETL No. 1757

LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID. ZONE ANGLE	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID. ZONE ANGLE	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° (R)			90° (R)	0	
175°			85°	17.7	19
165°			75°	76.5	81
155°			65°	162	161
145°			55°	325	341
135°			45°	560	434
125°			35°	780	490
115°			25°	975	452
105°			15°	1130	320
95°			5°	1190	113
			0° (N)	1190	
LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	2361	51.5
0°-40°	1375	30.0	90°-180°	-	-
0°-60°	2100	45.5	0°-180°	2361	51.5
LUMINAIRE BRIGHTNESS					



Shielding Angles 35° C-25°  
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW  
ANGLES 0° 20° 30° 35° 40° 45° 20°L 30°L 40°L 0 J  
0 0.99 1.3 2.3 3.1 3.5 1.2 2.0 3.3 1.9 3.0  
TESTED BY *RH* PLOTTED BY *AW* COMPUTED BY *AW* CHECKED BY *AW* ISSUED February 2, 1949  
REPORT APPROVED BY *William F. Smith* IN CHARGE OF TEST  
ENGINEER, PHOTOMETRIC DEPARTMENT

## UTILIZATION FACTORS FOR CAT. NO. 9852-B TWO 40-WATT FLOURESCENT LUMINAIRE

CEILING		75%			50%			30%	
WALLS		50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX		C O E F F I C I E N T O F U T I L I Z A T I O N							
J.	0.6	0.29	0.26	0.25	0.28	0.26	0.25	0.27	0.25
I.	0.8	0.34	0.33	0.32	0.34	0.32	0.31	0.32	0.30
H.	1.0	0.37	0.36	0.35	0.36	0.35	0.35	0.35	0.34
G.	1.25	0.39	0.38	0.38	0.39	0.38	0.37	0.37	0.37
F.	1.5	0.41	0.40	0.39	0.40	0.39	0.38	0.39	0.38
E.	2.0	0.43	0.43	0.41	0.43	0.42	0.41	0.41	0.40
D.	2.5	0.46	0.44	0.43	0.45	0.44	0.43	0.43	0.43
C.	3.0	0.47	0.46	0.44	0.46	0.45	0.44	0.44	0.43
B.	4.0	0.48	0.46	0.46	0.47	0.45	0.45	0.45	0.44
A.	5.0	0.48	0.47	0.46	0.47	0.46	0.45	0.46	0.45

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70



### REPORT

Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330022

Order No. 19487-L

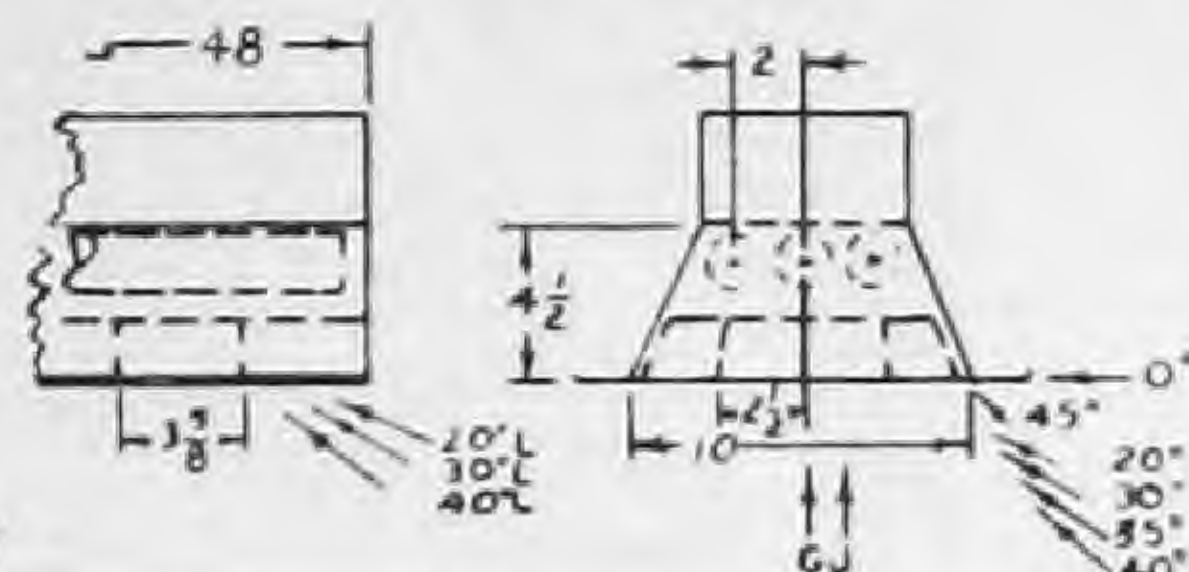
Plate No. 55547

Date February 2, 1949

CANDLEPOWER DISTRIBUTION  
CAT. NO. 9853B RECESSED FLUORESCENT LUMINAIRE\*  
TYPE - DIRECT

Rendered to Gill Glass and Fixture Company

Lamps - Three - 40 Watts; 118 Volts; 2300 Lumens; T-12  
White Fluorescent.  
Unit - Synthetic enameled metal housing and eggcrate  
louver, reflectance 0.86.  
Test - Candlepower distribution in three vertical  
planes intersecting in the center of the unit; A-A  
normal, B-B parallel and C-C 45° to the tubes.  
Maximum temperature rise - 66 C



\*ETL No. 1767

LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
NO. ZONE	CANDLEPOWER	TOTAL	NO. ZONE	CANDLEPOWER	TOTAL
ANGLE	AT 25 FEET	LUMENS	ANGLE	AT 25 FEET	LUMENS
180°	0	0	90°	0	0
175°	21.8	24	85°	21.8	24
165°	97.0	103	75°	97.0	103
155°	200	199	65°	200	199
145°	404	362	55°	404	362
135°	705	546	45°	705	546
125°	1020	641	35°	1020	641
115°	1330	616	25°	1330	616
105°	1560	442	15°	1560	442
95°	1670	159	5°	1670	159
			0°	1690	

#### LIGHT FLUX VALUES

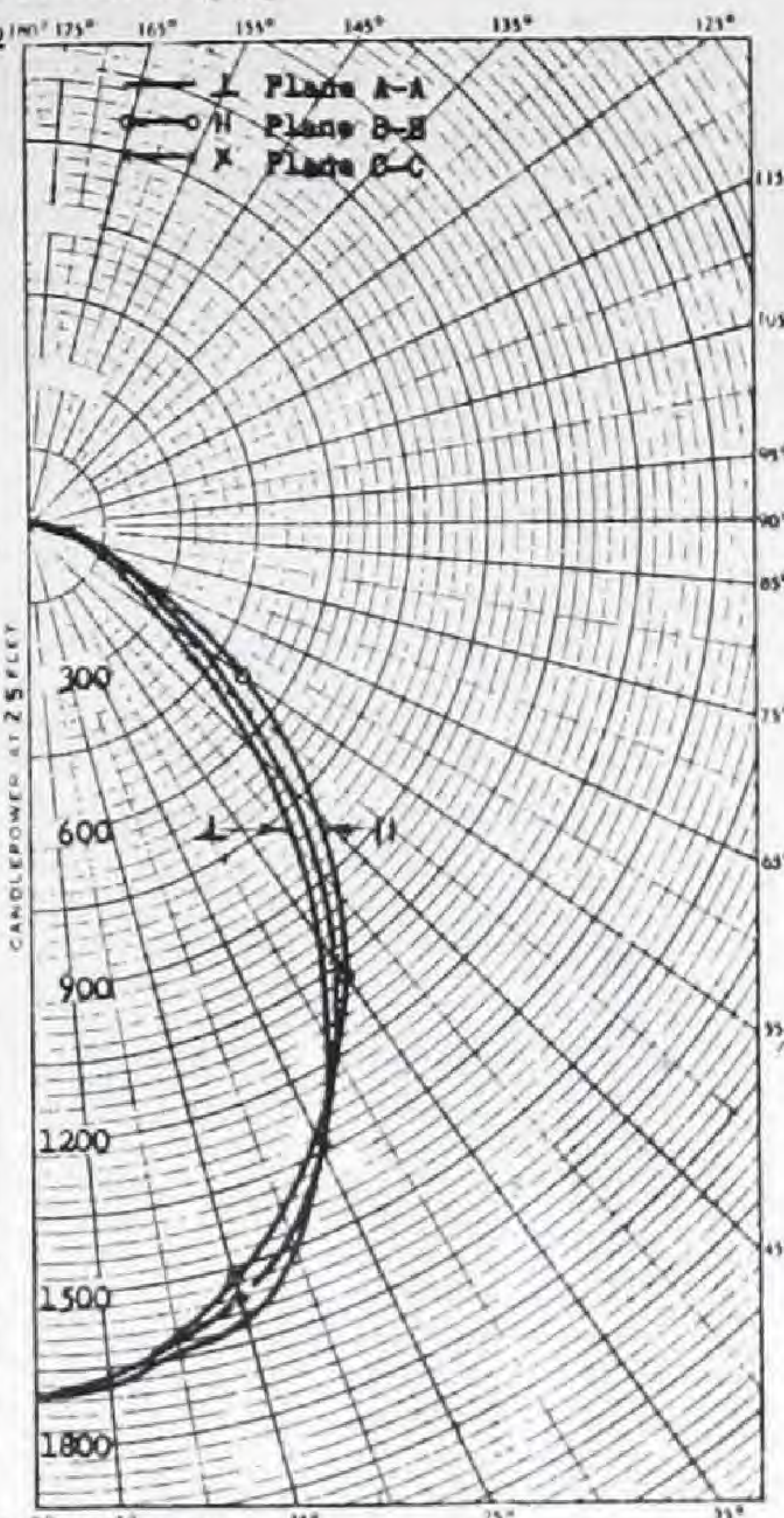
ZONE	LUMENS	PERCENT	ZONE	LUMENS	PERCENT
0°-30°			0°-90°	3092	45.0
0°-40°	1858	27.0	90°-180°		
0°-60°	2766	40.0	0°-180°	3092	45.0

#### LUMINAIRE BRIGHTNESS

Shielding Angle 35°C-25°L

THE ABOVE INDICATE THE LOCATION AND ANGLE OF VIEW											
CYCLES	0°	20°	30°	35°	40°	45°	20°L	30°L	40°L	0	J
0.50 in.	0	1.4	1.7	2.8	3.7	4.6	1.7	3.7	5.8	6.4	7.0
TESTED BY	J.M.		PLOTTED BY		J.M.		COMPUTED BY		J.M.		ISSUED
											February 2, 1949
REPORT APPROVED BY	W. H. F. Smith						COMPUTED BY		J.M.		
ENGINEER, PHOTOMETRIC DEPARTMENT						C. W. F. Smith					
						IN CHARGE OF TEST					

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ACCURACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPLETENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR REVISIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO E.T.L. REVIEW AND APPROVAL.



### UTILIZATION FACTORS FOR CAT. NO. 9853-B THREE 40-WATT FLUORESCENT LUMINAIRE

CEILING		75%			50%			30%	
WALLS		50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX		C O E F F I C I E N T O F U T I L I Z A T I O N							
J.	0.6	0.27	0.24	0.23	0.26	0.24	0.23	0.25	0.23
I.	0.8	0.32	0.31	0.30	0.32	0.30	0.29	0.30	0.28
H.	1.0	0.35	0.34	0.33	0.34	0.33	0.33	0.33	0.32
G.	1.25	0.36	0.35	0.35	0.36	0.35	0.35	0.35	0.35
F.	1.5	0.38	0.37	0.36	0.37	0.36	0.35	0.36	0.35
E.	2.0	0.40	0.40	0.38	0.40	0.39	0.38	0.38	0.37
D.	2.5	0.43	0.41	0.41	0.42	0.41	0.40	0.40	0.41
C.	3.0	0.44	0.43	0.41	0.43	0.42	0.41	0.41	0.40
B.	4.0	0.45	0.43	0.43	0.44	0.42	0.42	0.42	0.41
A.	5.0	0.45	0.44	0.43	0.44	0.43	0.42	0.44	0.42

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70



### REPORT

#### Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330736

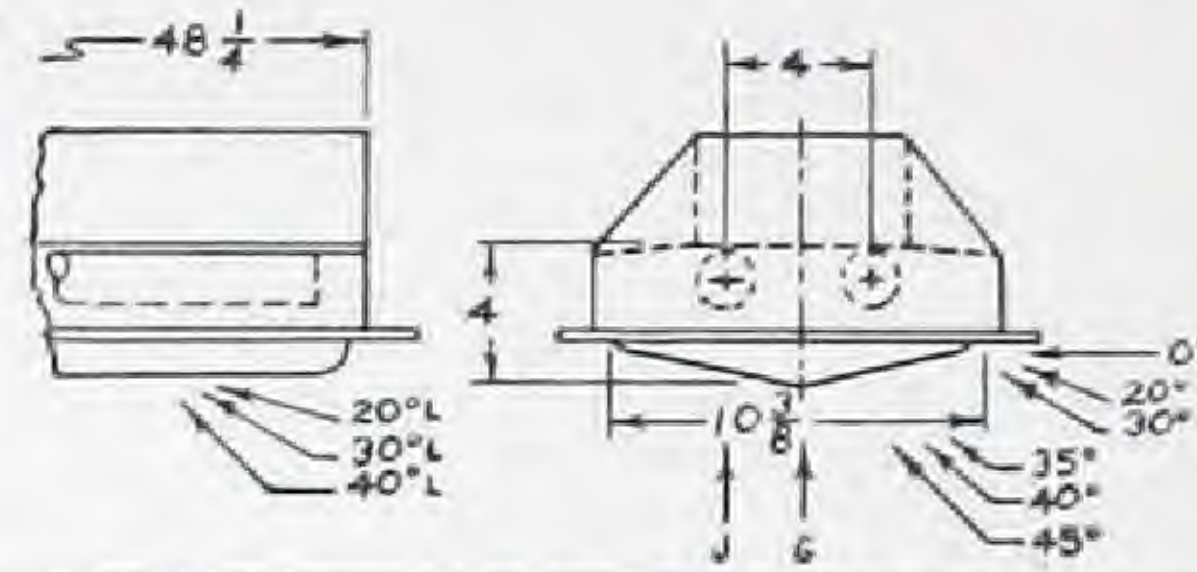
Order No. 19487-L

Plate No. 55744

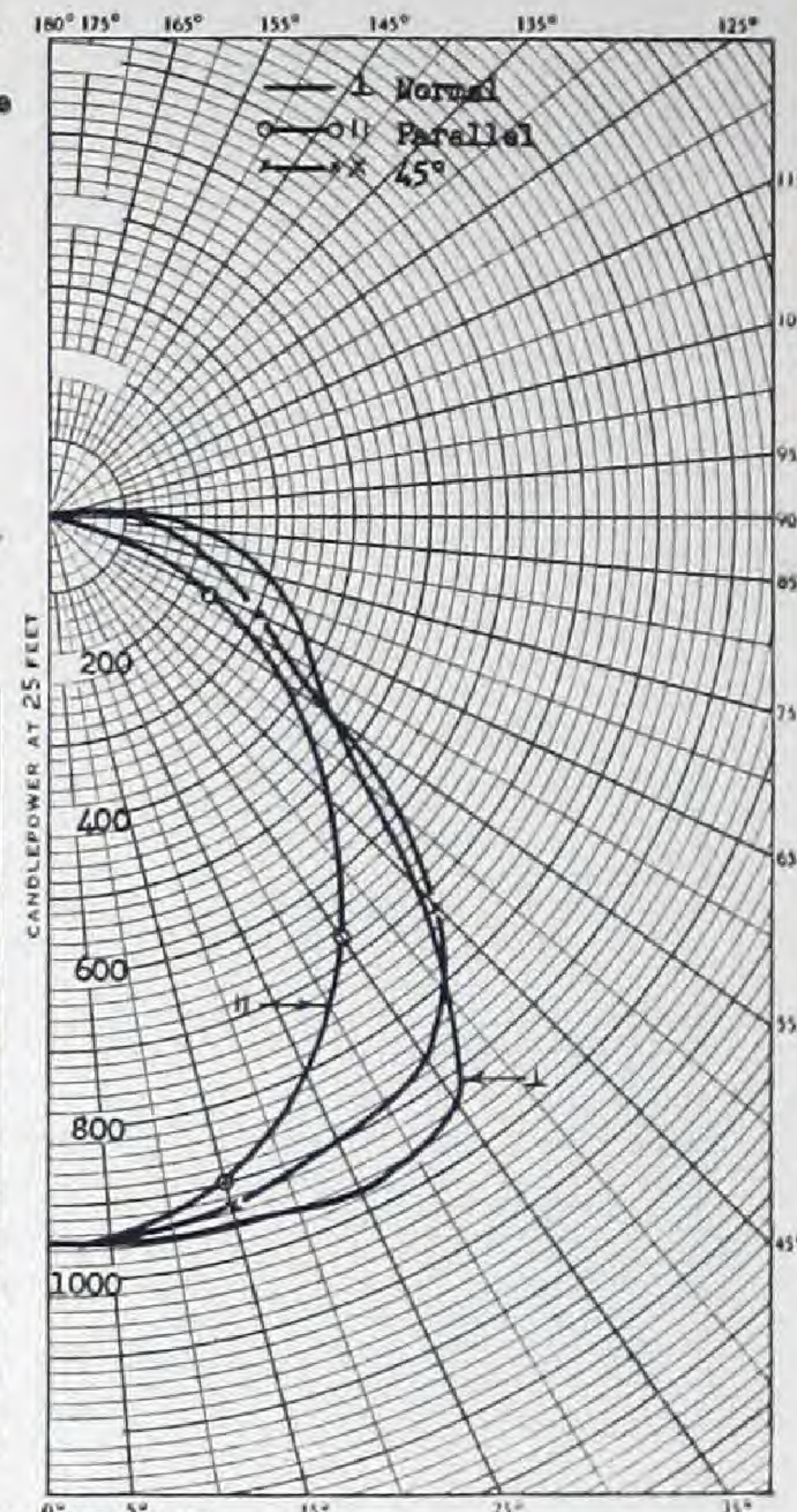
Date March 24, 1949

CANDLEPOWER DISTRIBUTION  
CAT. NO. 9862B RECESSED FLUORESCENT LUMINAIRE\*  
TYPE - DIRECT-90-90-3-R  
Tested under Fleur-O-Lier Specifications  
Rendered to Gill Glass and Fixture Company

Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12  
White Fluorescent.  
Unit - Synthetic enameled metal housing, reflectance  
0.88; curved, ribbed glass panel.  
Test - Candlepower distribution in three vertical  
planes intersecting in the center of the unit.  
Maximum temperature rise - 54 C; specified max. 65 C  
\*ETL No. 1783



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID- ZONE ANGLE	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID- ZONE ANGLE	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180°			90°	89.5	
175°			85°	133	14.5
165°			75°	212	22.4
155°			65°	303	30.1
145°			55°	440	39.5
135°			45°	660	51.1
125°			35°	840	52.4
115°	0	0	25°	895	41.4
105°	7.8	8	15°	930	26.3
95°	46.4	49	5°	950	9.0
			0°	955	
LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	2867	62.5
0°-40°	1291	28.0	90°-180°	57	1.0
0°-60°	2197	48.0	0°-180°	2924	63.5



Shielding Angles 90° C-90° L										
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW										
ANGLE C/Sq. In.	0°	20°	30°	35°	40°	45°	20° L	30° L	40° L	G. J.
FOOT CANDLE	2.8	3.2	2.6	2.3	2.3	2.7	1.4	1.7	1.9	1.5 3.0

TESTED BY *Q. M.* PLOTTED BY *D. H. M.* COMPILED BY *C. W.* CHECKED BY *Sen* ISSUED *March 24, 1949*  
REPORT APPROVED BY *William F. Smith* IN CHARGE OF TEST  
ENGINEER, PHOTOMETRIC DEPARTMENT

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPLETENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO ETL REVIEW AND APPROVAL.

### UTILIZATION FACTORS FOR CAT NO. 9862-B TWO 40-WATT FLUORESCENT LUMINAIRE

CEILING		75%			50%			30%	
WALLS		50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX		C O E F F I C I E N T O F U T I L I Z A T I O N							
J.	0.6	0.31	0.27	0.25	0.30	0.27	0.25	0.27	0.25
I.	0.8	0.37	0.34	0.32	0.37	0.34	0.32	0.34	0.32
H.	1.0	0.41	0.38	0.36	0.40	0.37	0.36	0.37	0.36
G.	1.25	0.43	0.41	0.40	0.43	0.40	0.39	0.40	0.39
F.	1.5	0.46	0.44	0.41	0.44	0.42	0.41	0.43	0.41
E.	2.0	0.49	0.47	0.44	0.48	0.46	0.44	0.46	0.44
D.	2.5	0.53	0.50	0.48	0.51	0.49	0.47	0.48	0.47
C.	3.0	0.54	0.52	0.49	0.53	0.50	0.49	0.50	0.48
B.	4.0	0.56	0.53	0.52	0.55	0.52	0.51	0.52	0.51
A.	5.0	0.57	0.55	0.53	0.56	0.54	0.52	0.53	0.52

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70



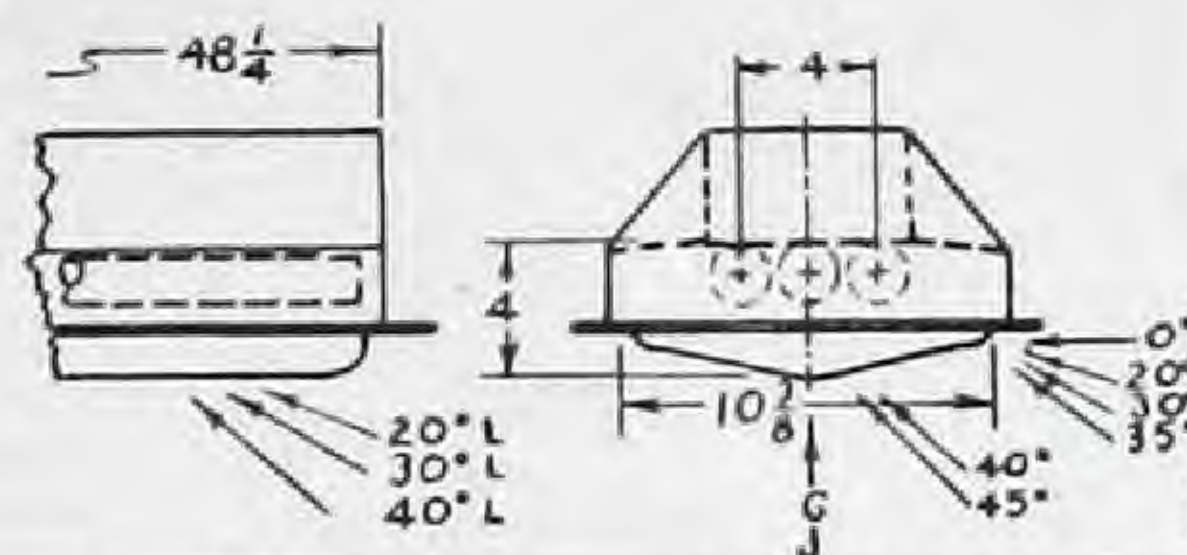
### REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79TH STREET, NEW YORK 21, N. Y.  
Report No. 330425 Order No. 19487-L Plate No. 55636 Date March 3, 1949

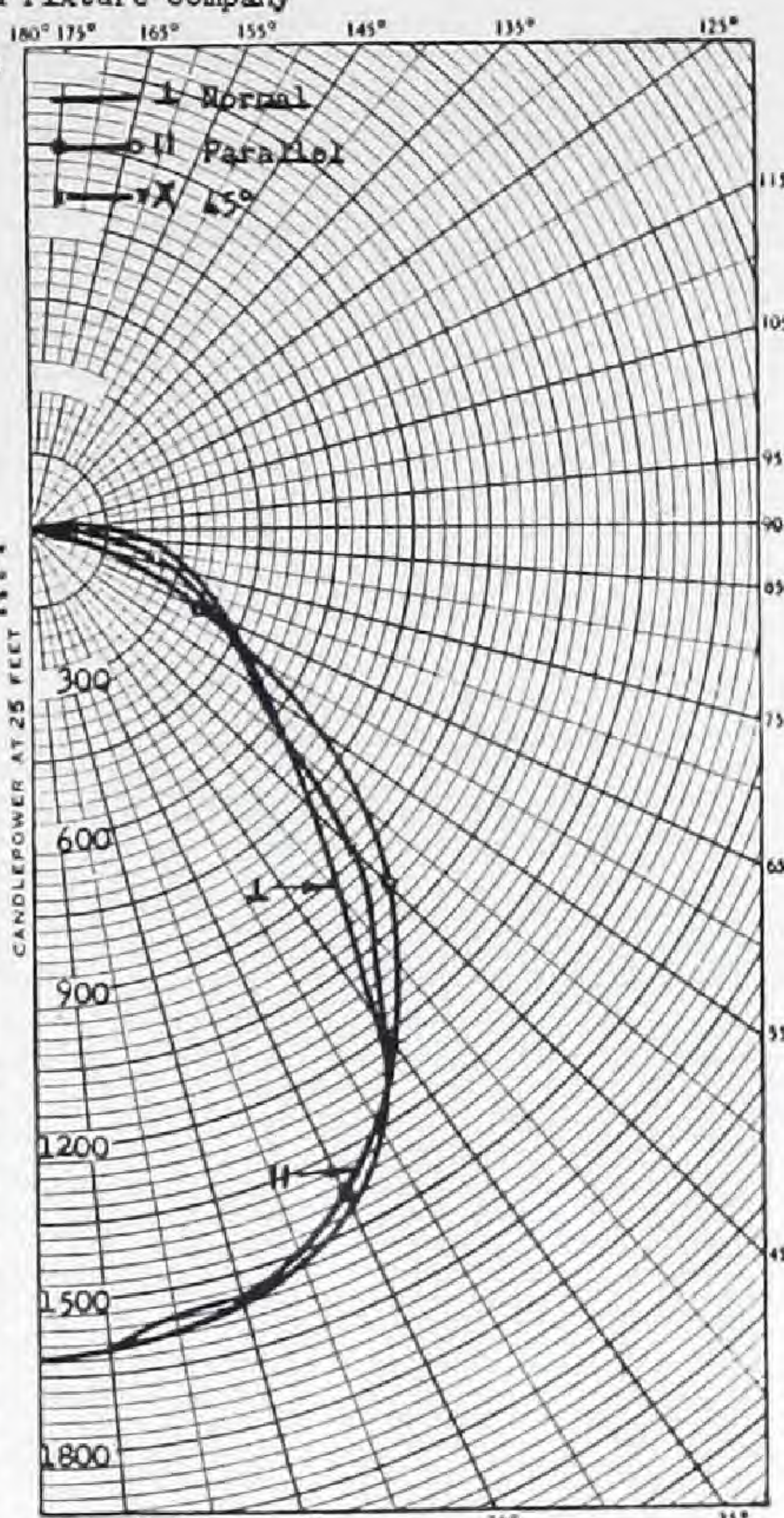
CANDLEPOWER DISTRIBUTION  
CAT. NO. 9863B RECESSED FLUORESCENT LUMINAIRE\*  
TYPE - D-90-90-3-R  
Tested under Fleur-O-Lier Specifications  
Rendered to Gill Glass and Fixture Company

Lamps - Three - 40 Watts; 118 Volts; 2300 Lumens; T-12  
White Fluorescent.  
Unit - Synthetic enameled troffer, reflectance 0.85;  
clear, curved, prismatic glass bottom.  
Test - Candlepower distribution in three vertical  
planes intersecting in the center of the unit.  
Maximum temperature rise - 61 C; specified max. 65 C

\*ETL No. 1766



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID- ZONE ANGLE	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID- ZONE ANGLE	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° HR.			90° HR.	102	
175°			85°	152	166
165°			75°	253	268
155°			65°	383	380
145°			55°	570	511
135°			45°	885	685
125°			35°	1210	760
115°	0	0	25°	1430	662
105°	10.9	12	15°	1550	438
95°	55.0	60	5°	1600	152
			0° RAD.	1610	
LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	4022	58.5
0°-40°	2012	29.0	90°-180°	72	1.0
0°-60°	3208	46.5	0°-180°	4094	59.5
LUMINAIRE BRIGHTNESS					



Shielding Angles 90° C-90° L											
ANGLE	0°	20°	30°	35°	40°	45°	50°	60°	70°	80°	90°
0°	3.0	3.6	3.4	2.8	2.5	3.3	2.8	3.5	4.0	5.0	5.0

TESTED BY *AM* PLOTTED BY *ST* COMPUTED BY *STW* CHECKED BY *STW* ISSUED *March 3, 1949*  
REPORT APPROVED BY *William F. Smith* IN CHARGE OF TEST  
ENGINEERING PHOTOGRAPHIC DEPARTMENT

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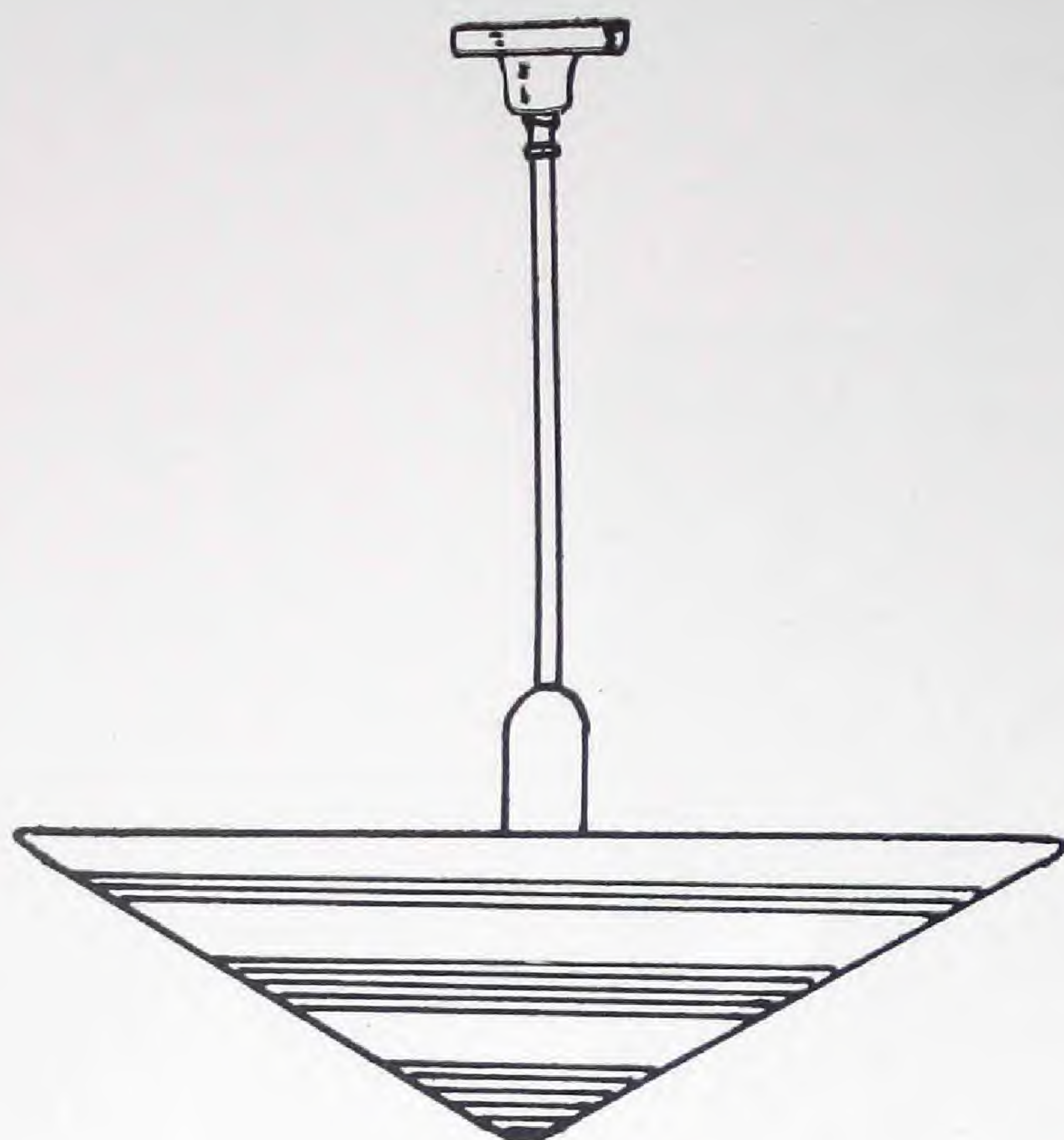
### UTILIZATION FACTORS FOR CAT. NO. 9863-B THREE 40-WATT RECESSED FLUORESCENT LUMINAIRE

CEILING		75%			50%			30%	
WALLS		50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX		C O E F F I C I E N T O F U T I L I Z A T I O N							
J.	0.6	0.29	0.26	0.24	0.29	0.26	0.24	0.26	0.24
I.	0.8	0.35	0.32	0.31	0.35	0.32	0.30	0.32	0.30
H.	1.0	0.39	0.36	0.34	0.38	0.36	0.34	0.35	0.34
G.	1.25	0.41	0.39	0.38	0.40	0.38	0.37	0.38	0.37
F.	1.5	0.44	0.42	0.39	0.42	0.40	0.39	0.40	0.39
E.	2.0	0.46	0.45	0.42	0.46	0.44	0.42	0.43	0.42
D.	2.5	0.50	0.47	0.45	0.49	0.46	0.45	0.46	0.45
C.	3.0	0.51	0.49	0.46	0.50	0.48	0.46	0.47	0.46
B.	4.0	0.53	0.51	0.49	0.52	0.49	0.48	0.49	0.48
A.	5.0	0.54	0.52	0.51	0.53	0.51	0.49	0.50	0.49

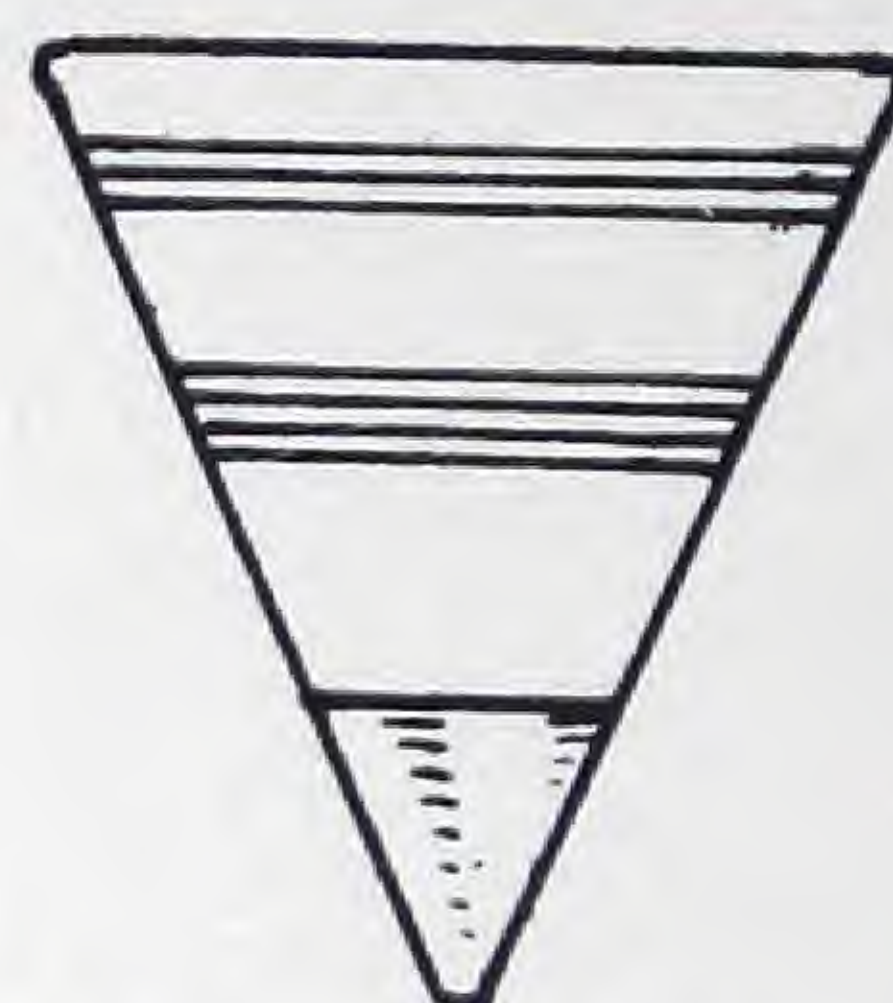
ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

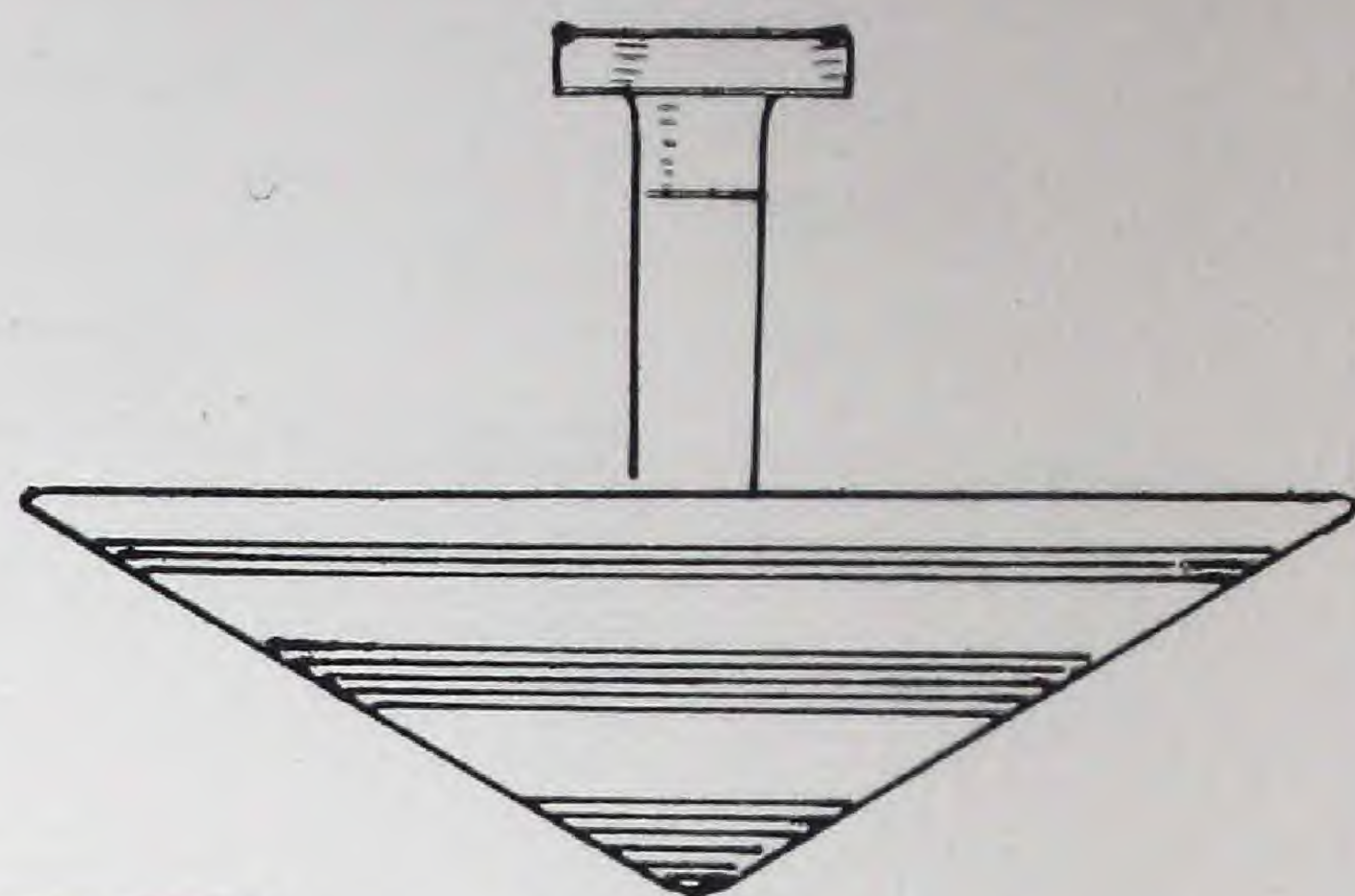




Catalog No. 66160



Catalog No. 66110



Catalog No. 66260

*A luminous bowl, indirect lighting luminaire of white opal glass with ribbed design, having a fired-in reflecting surface. For use with incandescent lamps.*

Pendant type units equipped with steel swivel-type hangers finished in plated satin chrome.

Ceiling type—steel fitter finished in plated satin chrome.

Wall bracket type is cast of aluminum and finished in a simulated polished chrome.

	CATALOG No.	O. A. SUSP.	BOWL DIA.	WATTAGE
PENDANT TYPE	66160	30"	16"	150- 200
	66180	33"	18"	300- 500
	66200	36"	20"	750-1000
CEILING TYPE	66260	12"	16"	150- 200
	66280	14"	18"	300- 500
	66300	17"	20"	750-1000
BRACKET TYPE	CATALOG No.	WIDTH	HEIGHT	WATTAGE
	66110	10¾"	11½"	100



# GILL *planned lighting luminaires*

ELECTRICAL TESTING LABORATORIES  
NEW YORK, N. Y.

PORT NO. 151376

ORDER NO. 75634-3

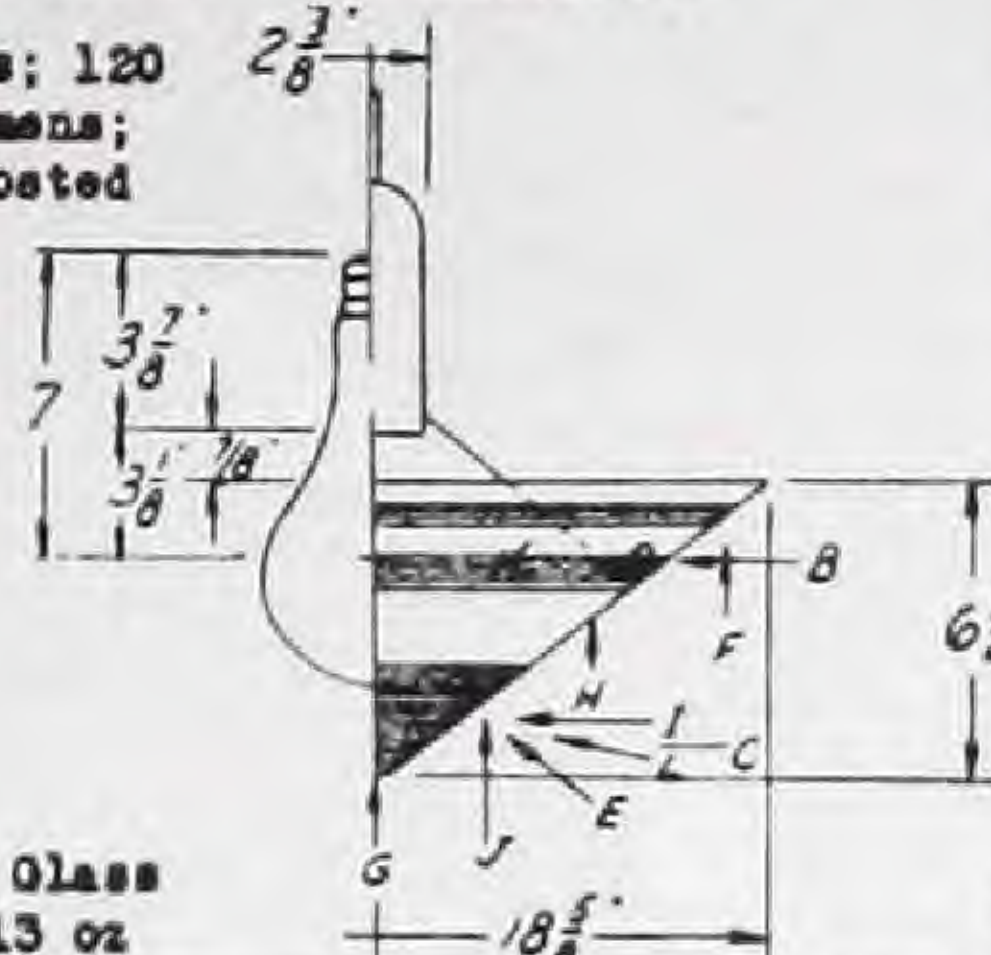
PLATE NO. 34556

## CANDLEPOWER DISTRIBUTION GLASS BASIN\*

Rendered to Gill Glass & Fixture Company

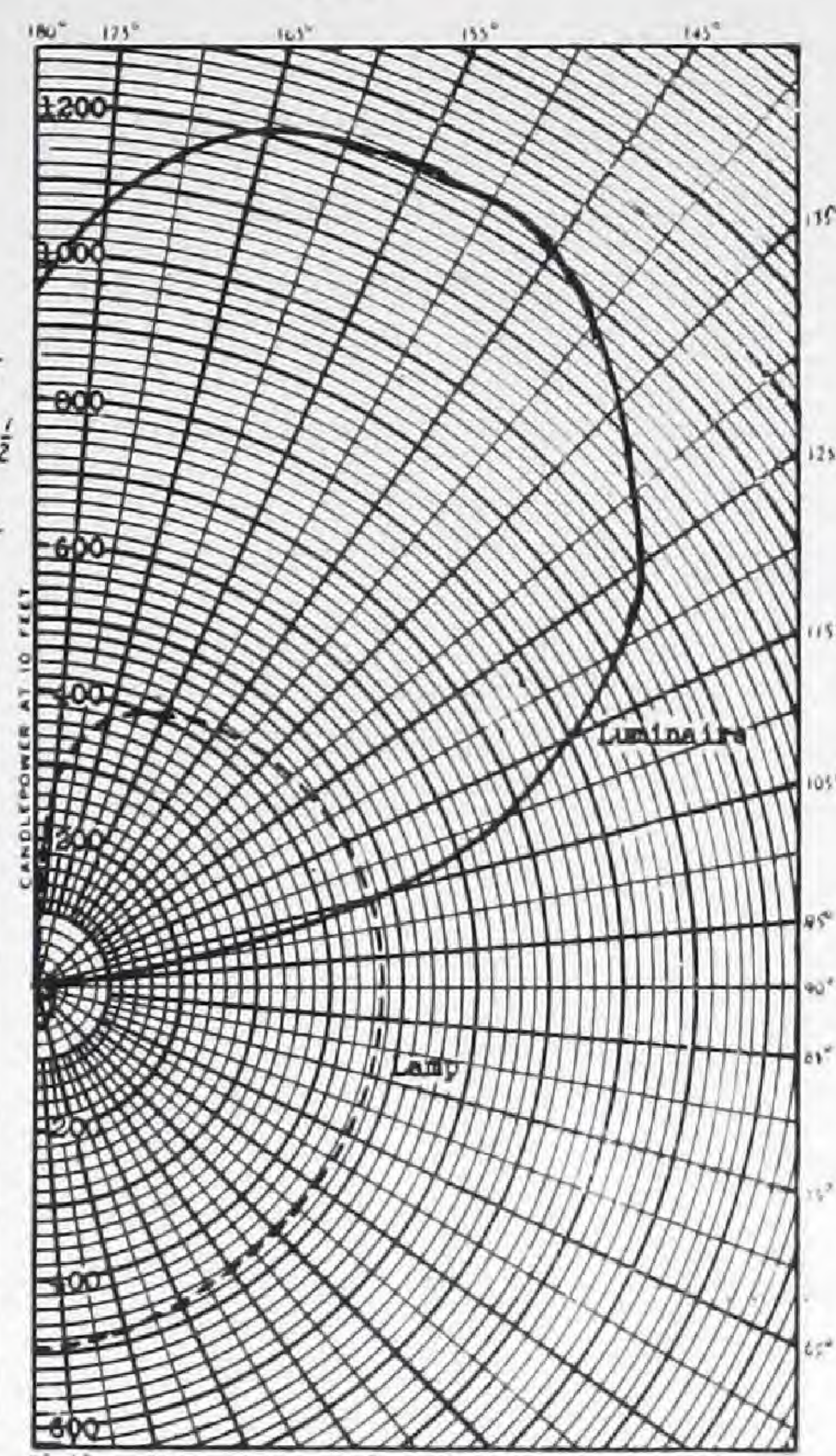
One unit submitted by client and tested in accordance with client's instructions.

Lamp - 300 Watts; 120  
Volts; 5760 Lumens;  
PS35 Inside-Frosted  
Bulb; C-7A  
Filament;  
Mogul Base;  
General  
Service.



White Diffusing Glass  
Weight - 10 lb 13 oz

LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
WID ZONE ANGLE	CANDLEPOWER AT 10 FEET	TOTAL LUMENS	WID ZONE ANGLE	CANDLEPOWER AT 10 FEET	TOTAL LUMENS
180°-180°	950		90°-90°	18.3	
175°	1060	101	85°	12.5	14
165°	1210	341	75°	12.2	18
155°	1230	570	65°	22.9	23
145°	1220	786	55°	28.1	25
135°	1120	868	45°	34.3	27
125°	1010	897	35°	39.8	25
115°	800	794	25°	45.4	21
105°	500	498	15°	48.4	14
95°	49.2	70	5°	50	5
			0°-180°	56	
LIGHT FLUX VALUES					
ZONE	LUMENS		PER CENT		PER CENT
	LAMP	LUMINAIRE	TOTAL LUMENS	BASE LAMP	LIGHT OUTPUT
0°-60°	1472	117	-	2	
0°-90°	2944	172	-	3	
90°-180°	2816	4905	85		88
0°-180°	5760	5077	88		



LUMINAIRE BRIGHTNESS

CANDLEPOWER PER SQUARE INCH  
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

LOCATIONS	A	B	C	D	E	F	G	H	I	J	K	L	M
CP PER SQ IN	0.09	0.2	0.3	-	0.5	0.09	0.3	0.2	0.4	0.4	0.1	0.4	-

\*E.T.L. Identification No. 10438

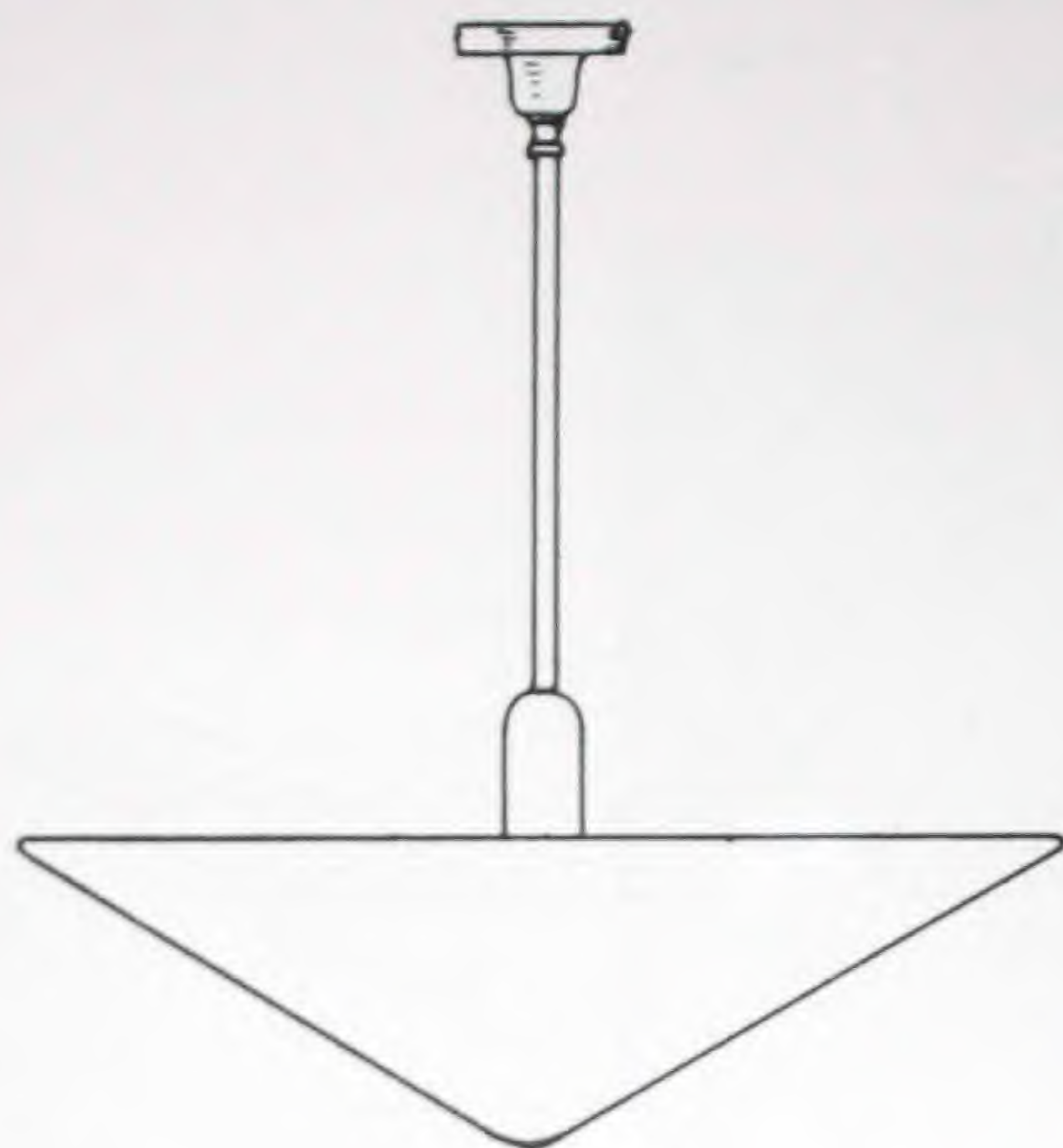
TESTED BY *JMC* PLOTTED BY *Int* COMPUTED BY *Int* CHECKED BY *Int* ISSUED March 4, 1940.  
APPROVED BY *C. F. Horn* IN CHARGE OF TEST

## UTILIZATION FACTORS FOR CAT. NO. 66180 ONE 300-WATT INCANDESCENT LUMINAIRE

CEILING		75%			50%			30%	
WALLS		50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX		C O E F F I C I E N T O F U T I L I Z A T I O N							
J.	0.6	0.17	0.14	0.12	0.13	0.11	0.09	0.07	0.06
I.	0.8	0.21	0.17	0.16	0.16	0.14	0.12	0.09	0.08
H.	1.0	0.24	0.21	0.18	0.18	0.15	0.14	0.11	0.09
G.	1.25	0.27	0.24	0.21	0.21	0.18	0.16	0.12	0.11
F.	1.5	0.30	0.27	0.23	0.23	0.20	0.18	0.13	0.12
E.	2.0	0.33	0.30	0.27	0.25	0.22	0.20	0.14	0.13
D.	2.5	0.37	0.33	0.31	0.27	0.25	0.23	0.16	0.15
C.	3.0	0.39	0.36	0.33	0.29	0.26	0.25	0.17	0.16
B.	4.0	0.43	0.40	0.37	0.31	0.30	0.28	0.19	0.18
A.	5.0	0.45	0.42	0.40	0.34	0.31	0.30	0.20	0.19



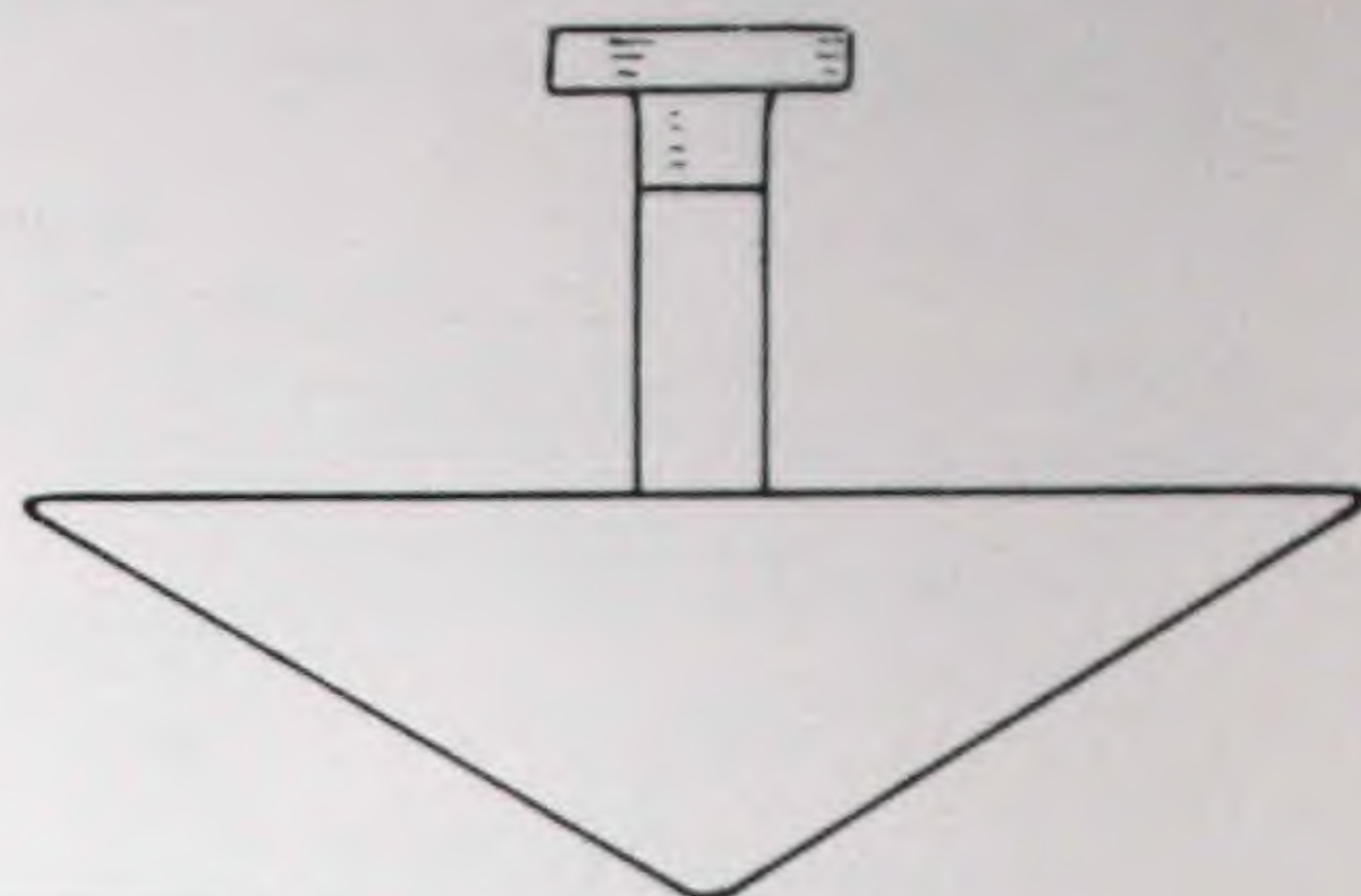
# GILL *planned lighting luminaires*



Catalog No. 26160



Catalog No. 16110



Catalog No. 26260

A semi-indirect lighting luminaire of white hyperion glass for use with incandescent lamps.

Pendant type units equipped with steel, swivel-type hangers finished in plated, satin chrome.

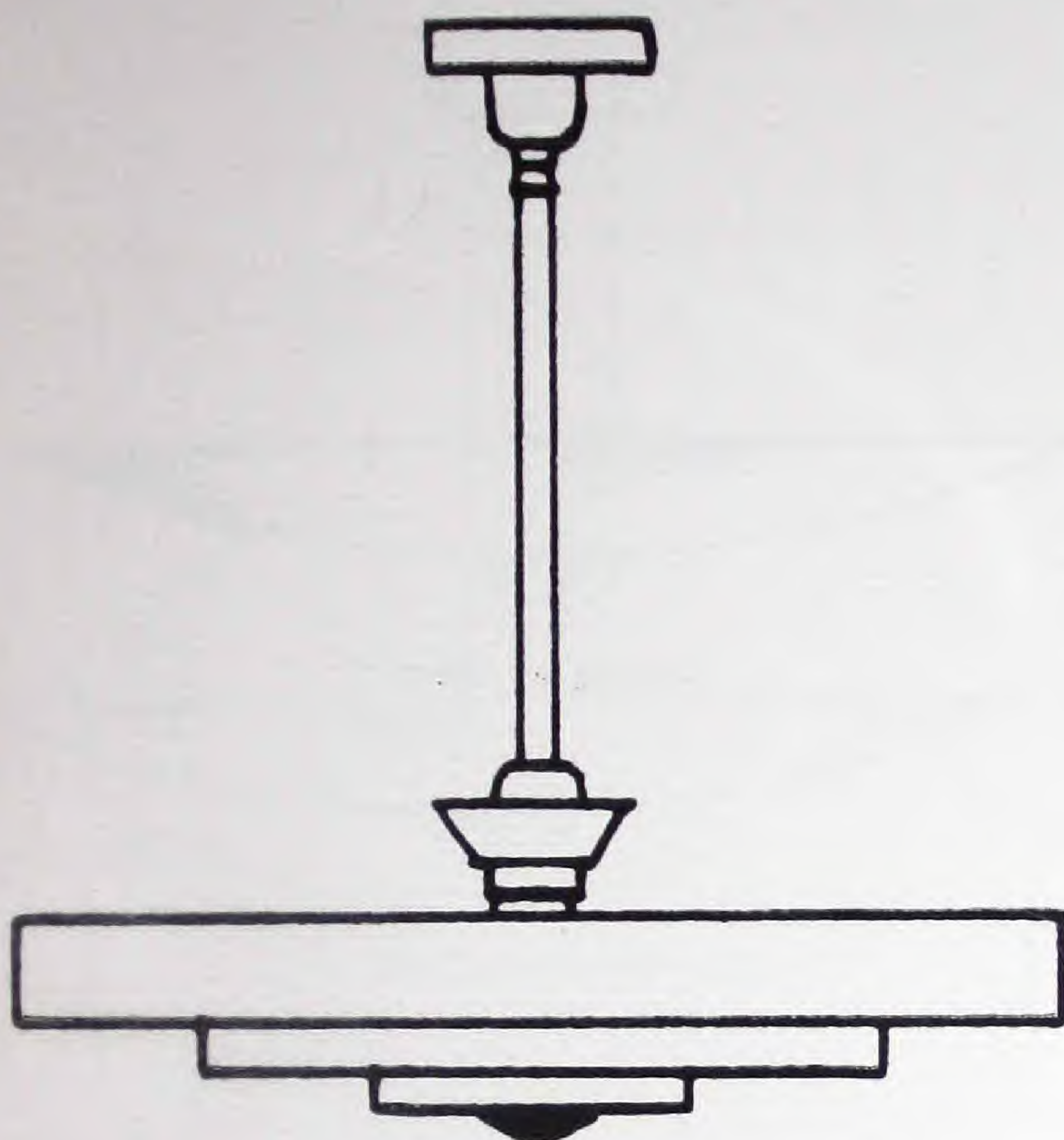
Ceiling type steel fitter finished in plated satin chrome.

Wall bracket type are cast aluminum and finished in a simulated polished chrome.

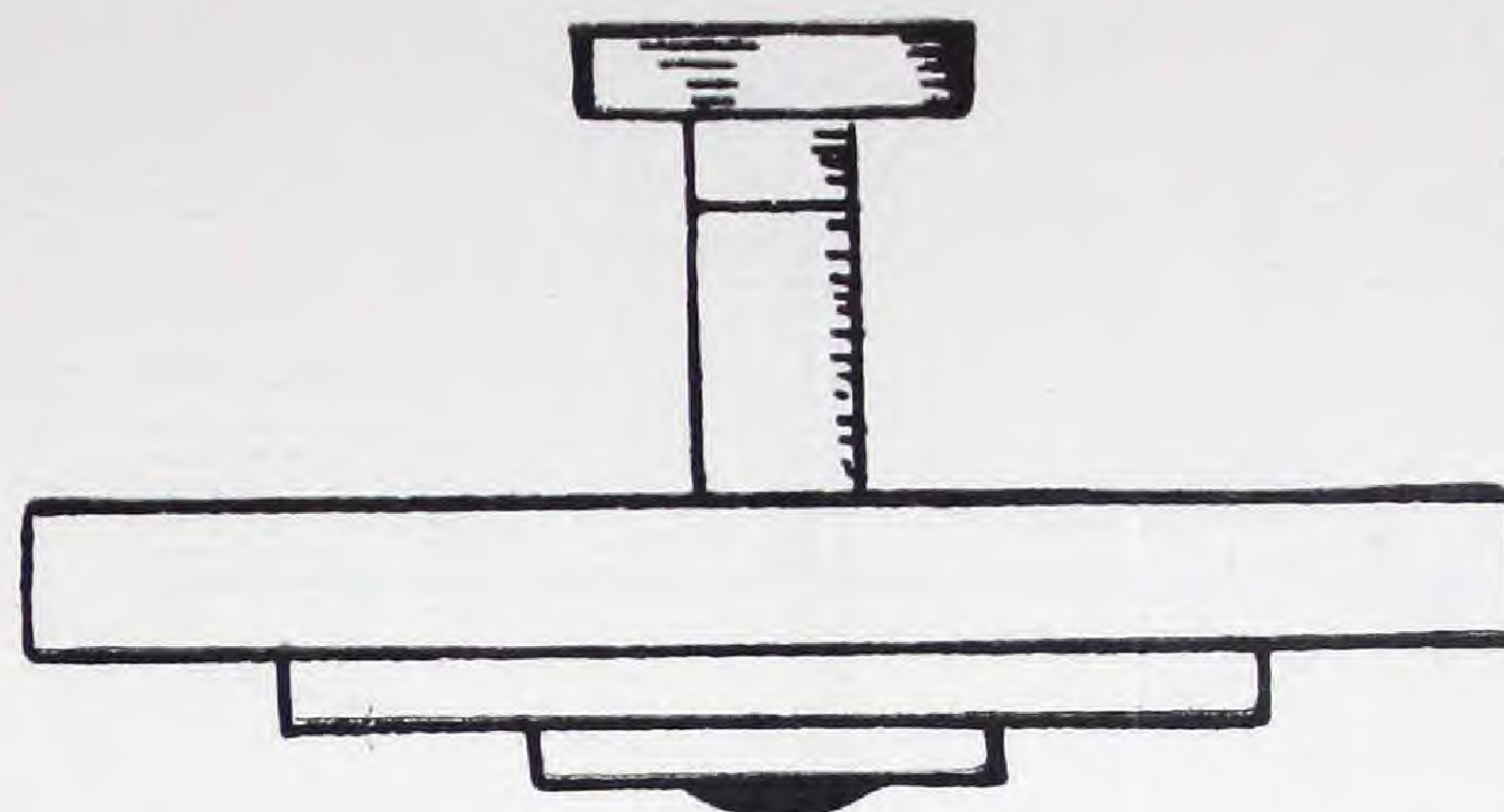
PENDANT TYPE	CATALOG No.	O. A. SUSP.	BOWL DIA.	WATTAGE
	26160	30"	16"	150-200
	26180	33"	18"	300-500
CEILING TYPE	26260	12"	16"	150-200
	26280	14"	18"	300-500
BRACKET TYPE	CATALOG No.	WIDTH	HEIGHT	WATTAGE
	16110	10 3/4"	11 1/2"	100



# GILL *planned lighting luminaires*



Catalog No. 715-P



Catalog No. 715-C

*A shielded, steel, indirect lighting luminaire for use with the silver-bowl incandescent lamps.*

Pendant type units suspended by means of swivel adjusting steel hangers. Finished in plated satin chrome. The three concentric steel louver rings are finished inside and out in high temperature baked-on white enamel. Lamps neck shield has a plated satin chrome finish.

Ceiling type units are suspended by means of an extension type collar finished in plated satin chrome. The three concentric steel louver rings are finished inside and out in high temperature baked-on white enamel.

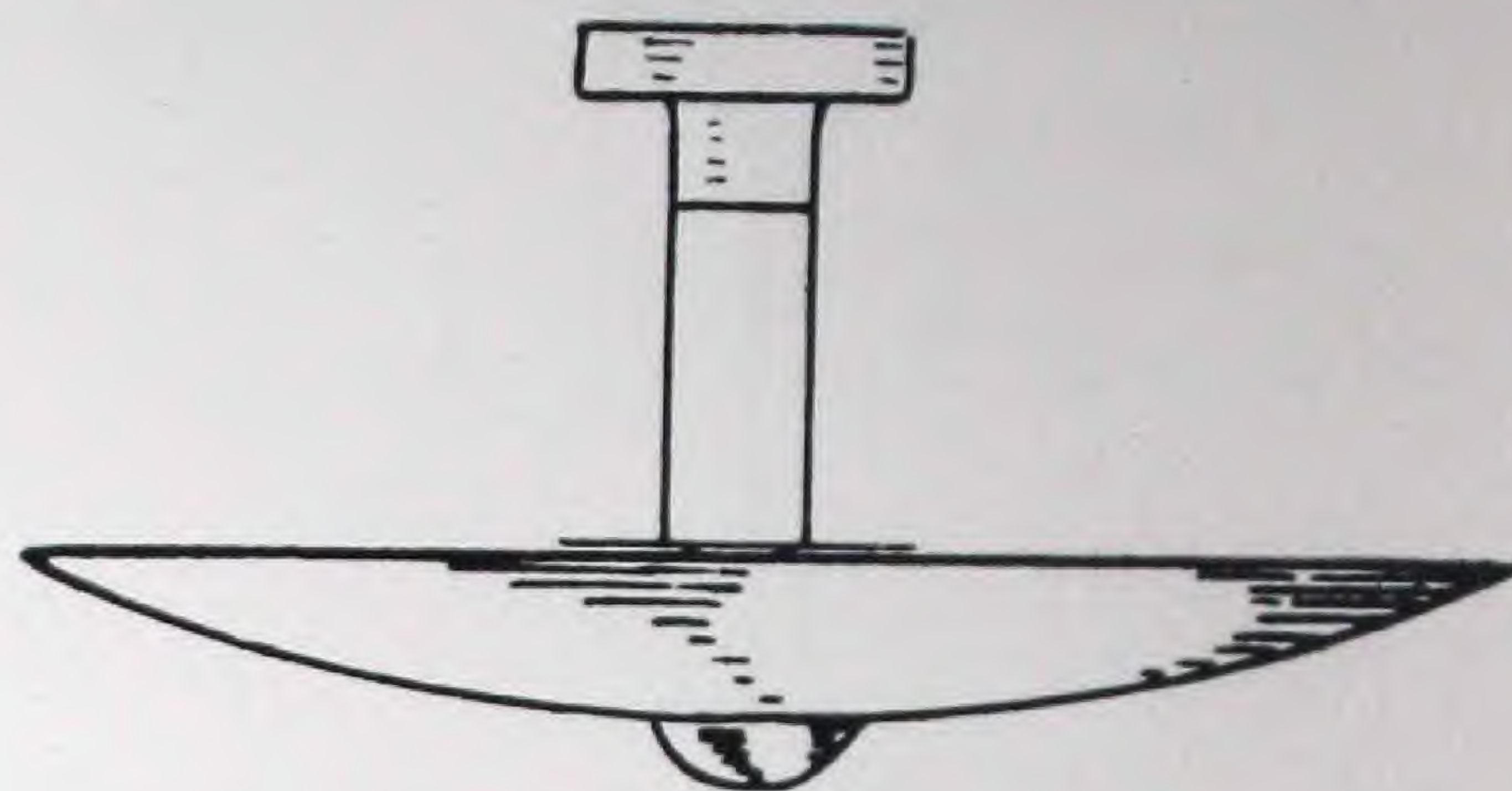
	CATALOG No.	O. A. SUSP.	RING DIA.	WATTAGE
PENDANT TYPE	715-P	20"	15"	200
	720-P	30"	19"	300-500
CEILING TYPE	715-C	10"	15"	200
	720-C	12"	19"	300-500



# GILL *planned lighting luminaires*



Catalog No. 516-P



Catalog No. 516-C

*A softly luminous, glass indirect lighting luminaire for use with the silver-bowl incandescent lamp.*

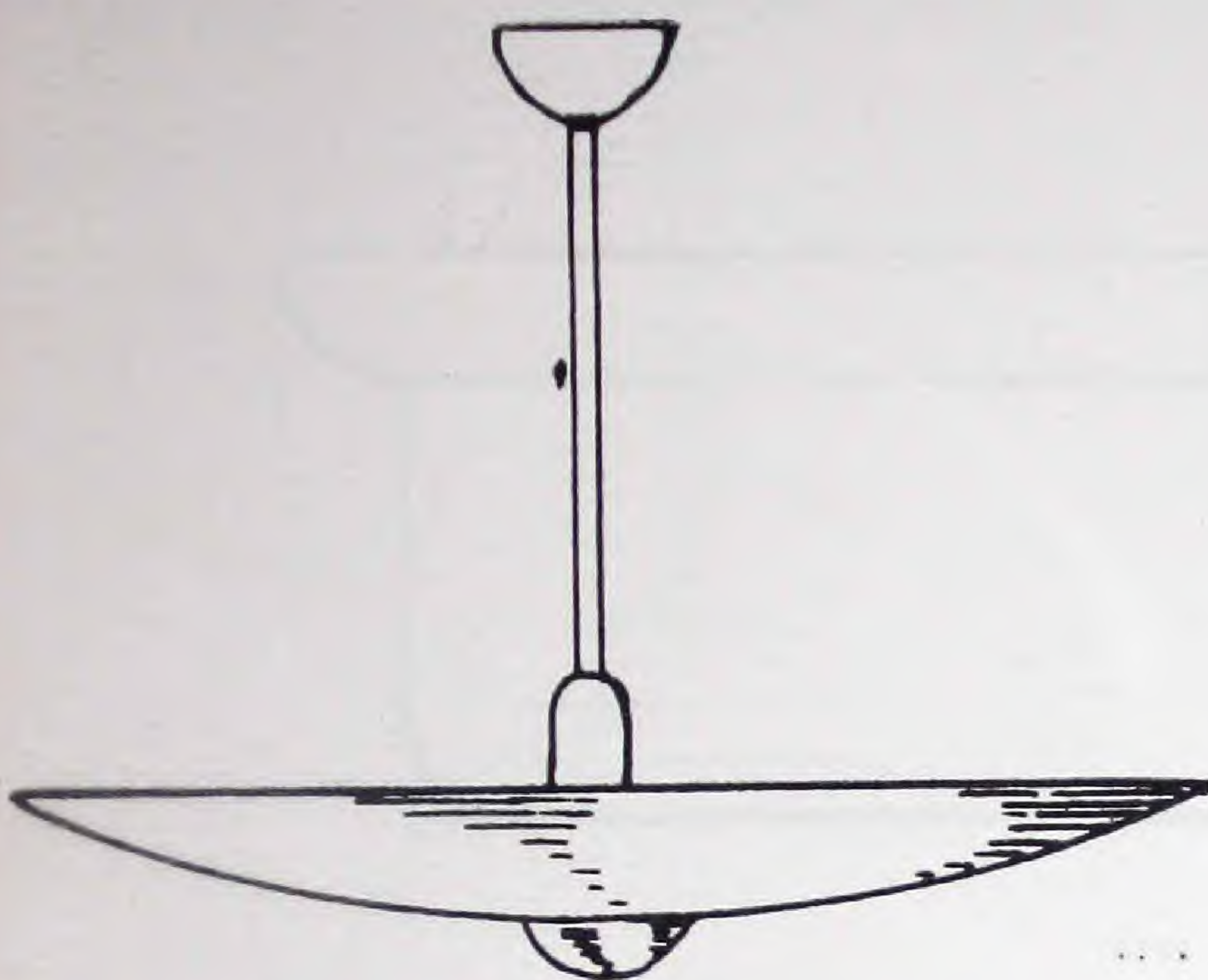
Pendant type units suspended by means of swivel adjusting steel hangers finished in plated satin chrome. The shallow glass bowls are made with a white inner reflecting surface. Lamp neck shields are finished in plated satin chrome.

Ceiling type units are suspended by means of an extension type collar finished in plated satin chrome. The shallow glass bowls are made with a white inner reflecting surface.

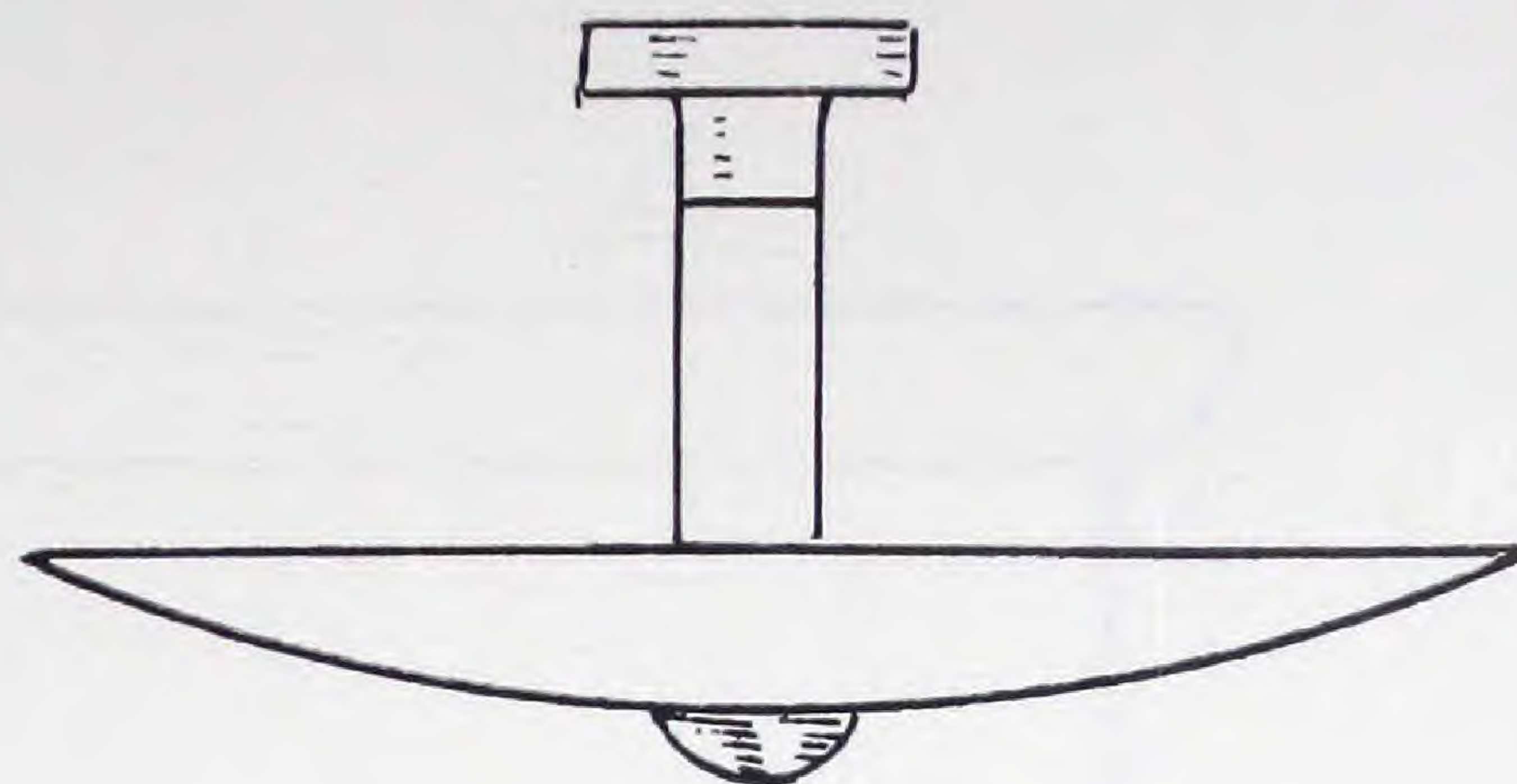
PENDANT TYPE	CATALOG No.	O. A. SUSP.	BOWL DIA.	WATTAGE
	516-P	20"	16"	150-200
	520-P	30"	20"	300-500
CEILING TYPE	516-C	10"	16"	150-200
	520-C	12"	20"	300-500



# GILL *planned lighting luminaires*



Catalog No. 816-P



Catalog No. 816-C

*An indirect luminaire for use with the silver bowl incandescent lamp.*

Pendant type units suspended by means of swivel adjusting steel hangers finished in plated satin chrome. The shallow spun steel reflector is finished inside and out with high temperature baked on white enamel. Lamp neck shielded is finished in plated satin chrome.

Ceiling type units are suspended by means of an extension type collar finished in plated satin chrome. The shallow spun steel reflector is finished inside and out with high temperature "baked on" white enamel. Lamp neck shield is finished in plated satin chrome.

	CATALOG No.	O. A. SUSP.	BOWL DIA.	WATTAGE
PENDANT TYPE	816-P	20"	16"	150-200
	820-P	30"	20"	300-500
CEILING TYPE	816-C	10"	16"	150-200
	820-C	12"	20"	300-500



# GILL *planned lighting luminaires*



Catalog No. 6508

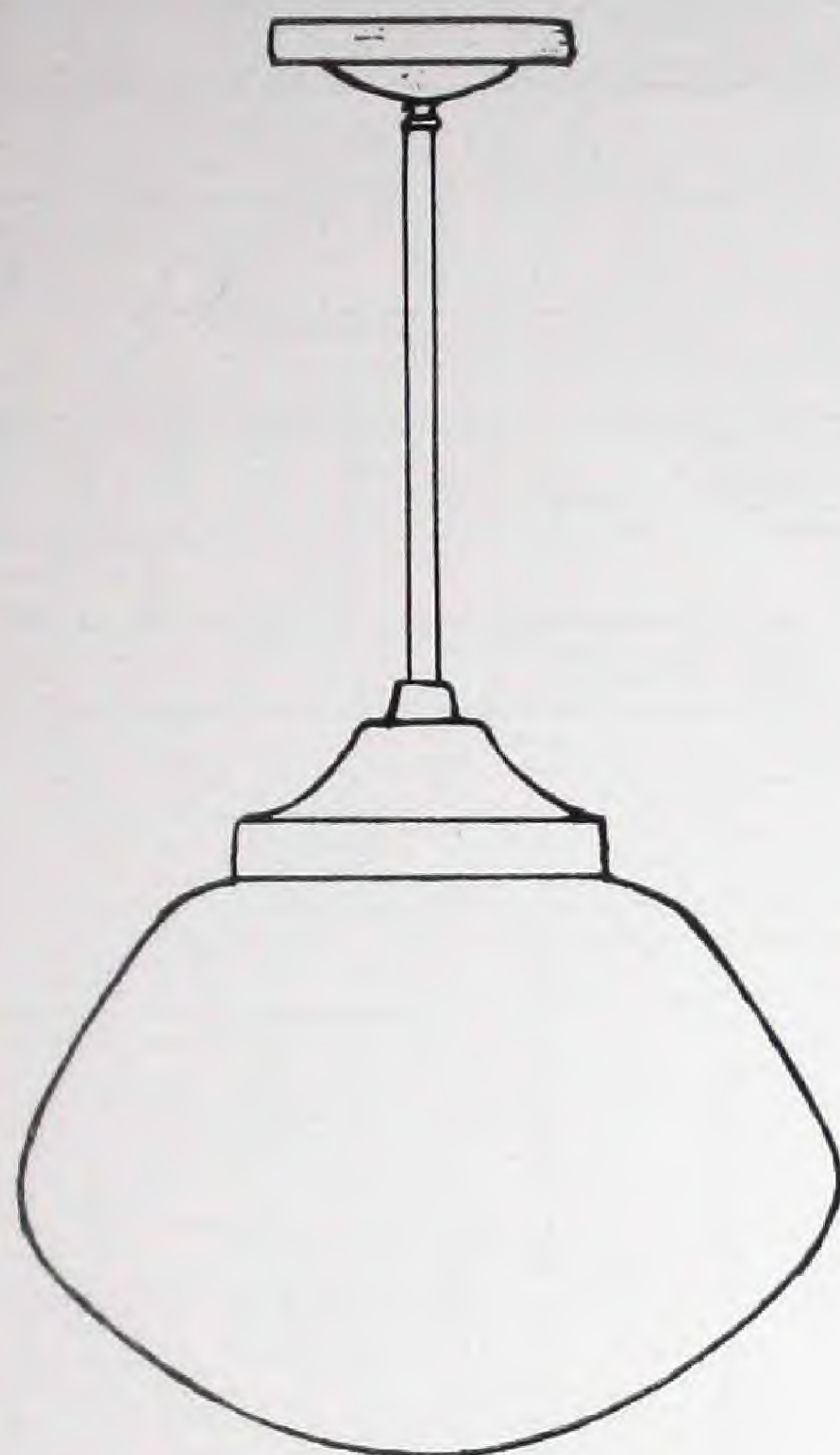
A ceiling, drum type general diffuse luminaire of Hyperion, highly efficient white opal glass for use with small wattage incandescent lamps.

Ceiling pan fitter made of steel and finished in plated polished chrome.

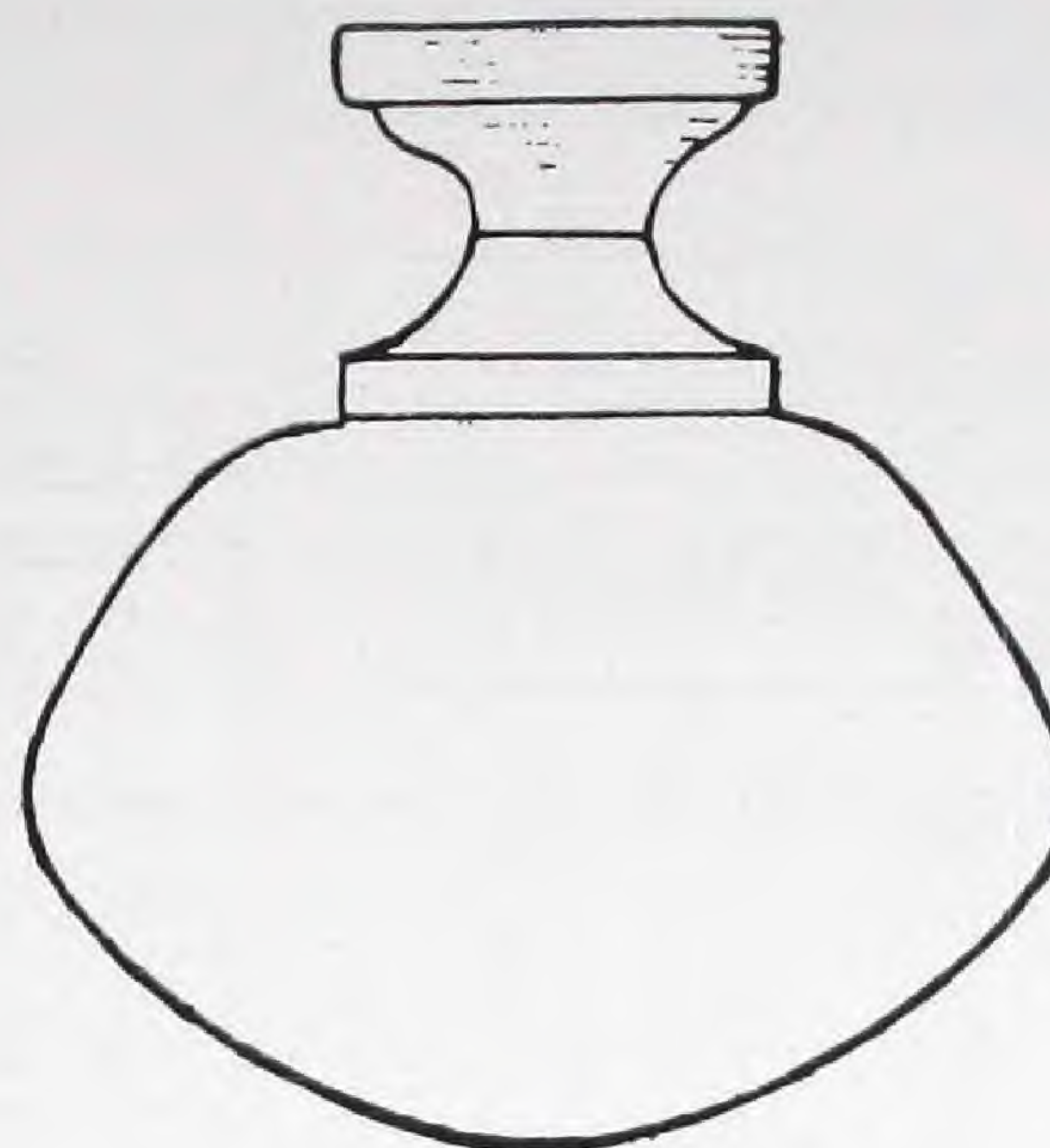
Glass secured to fitter by means of bottom polished chrome knob.

CATALOG No.	DIA. CEILING FLANGE	GLASS		NUMBER OF SOCKETS
		DIA.	DEPTH	
6508	9½"	8"	4¾"	2
6510	11½"	10"	4⅝"	2
6512	13½"	12"	5⅛"	2
6514	15½"	14"	5⅝"	3





Catalog No. 7010-P



Catalog No. 7010-C

A pendant or ceiling type general diffuse luminaire of Hyperion, highly efficient white opal glass for use with incandescent lamps.

Both pendant and ceiling type hangers are made of steel and finished in plated satin silvertone.

Canopy diameters 5" on Pendant types, 6" on ceiling types. Knockouts for canopy switches on both types.

### PENDANT TYPE

### CEILING TYPE

CAT. No.	O. A. LENGTH	GLASS		WATT- AGE	CAT. No.	O. A. LENGTH	GLASS		WATT- AGE
		DIA.	DEPTH				DIA.	DEPTH	
7010-P	24"	8½"	7"	75	7010-C	5½"	8½"	7"	75
7030-P	24"	10"	7¾"	100	7030-C	5½"	10"	7¾"	100
7040-P	24"	12"	8½"	100-150	7040-C	5½"	12"	8½"	100-150
7050-P	24"	14"	9½"	150-200	7050-C	5½"	14"	9½"	150-200
7060-P	24"	16"	11½"	200-300	7060-C	5½"	16"	11½"	200-300
7070-P	24"	18"	12"	300-500	7070-C	5½"	18"	12"	300-500



### First Step

Select proper ROOM INDEX from the following table—using room dimensions of your particular job.

INDEX SYMBOL	0.6 A	0.8 B	1.0 C	1.25 D	1.5 E	2.0 F	2.5 G	3.0 H	4.0 I	5.0 J
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### CEILING HEIGHT

INDIRECT AND SEMI-INDIRECT	9' to 9½'	10' to 11½'	12' to 13½'	14' to 16½'	17' to 20'	21' to 24'	25' to 30'	31' to 36'	37' to 50'
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### MOUNTING HEIGHT

DIRECT, SEMI-INDIRECT, GENERAL DIFFUSE, DIRECT-INDIRECT LUMINAIRES	7' to 7½'	8' to 8½'	9' to 9½'	10' to 11½'	12' to 13½'	14' to 16½'	17' to 20'	21' to 24'	25' to 30'
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ROOM WIDTH	ROOM LENGTH	ROOM INDEX									
9 (8½-9)	8-10	H	I	J	J						
	10-14	H	I	J	J						
	14-20	G	H	I	J						
	20-30	G	H	I	J						
	30-42	F	G	H	I						
10 (9½-10½)	42-up	E	F	G	H						
	10-14	G	H	I	J						
	14-20	G	H	I	J						
	20-30	F	G	H	I						
	30-42	F	G	H	I						
12 (11-12½)	42-60	E	F	G	H						
	60-up	E	F	G	H						
	11-14	G	H	I	J						
	14-20	F	G	H	I						
	20-30	F	G	H	I						
14 (13-15½)	30-42	E	F	G	H						
	42-60	E	F	G	H						
	60-90	D	E	F	G						
	90-up	D	E	F	G						
	16-20	E	F	G	H						
17 (16-18½)	20-30	E	F	G	H						
	30-42	D	E	F	G						
	42-60	D	E	F	G						
	60-110	D	E	F	G						
	110-up	C	D	E	F						
20 (19-21½)	20-30	D	E	F	G						
	30-42	D	E	F	G						
	42-60	D	E	F	G						
	60-90	C	D	E	F						
	90-140	C	D	E	F						
24 (22-26)	140-up	C	D	E	F						
	22-30	D	E	F	G						
	30-42	C	D	E	F						
	42-60	C	D	E	F						
	60-90	C	D	E	F						
30 (27-33)	90-140	C	D	E	F						
	140-180	B	C	D	E						
	180-up	B	C	D	E						
	27-42	C	D	E	F						
	42-60	C	D	E	F						
36 (34-39)	60-90	B	C	D	E						
	90-140	A	B	C	D						
	140-200	A	B	C	D						
	200-up	A	B	C	D						
	34-42	B	C	D	E						
42 (40-45)	42-60	B	C	D	E						
	60-90	A	B	C	D						
	90-140	A	B	C	D						
	140-200	A	B	C	D						
	200-up	A	B	C	D						
50 (46-55)	46-60	A	B	C	D						
	60-90	A	B	C	D						
	90-140	A	B	C	D						
	140-200	A	B	C	D						
	200-up	A	B	C	D						
60 (56-67)	56-90	A	B	C	D						
	90-140	A	B	C	D						
	140-200	A	B	C	D						
	200-up	A	B	C	D						
	60-90	A	B	C	D						
75 (68-90)	90-140	A	B	C	D						
	140-200	A	B	C	D						
	200-up	A	B	C	D						
	68-90	A	B	C	D						
	90-140	A	B	C	D						
90 or more	140-200	A	B	C	D						
	200-up	A	B	C	D						
	90-140	A	B	C	D						
	140-200	A	B	C	D						
	200-up	A	B	C	D						



### Second Step

Turn to the Catalog page illustrating the Gill luminaire you wish to use; and determine the *Coefficient of Utilization* from the table shown using the symbol selected from step No. 1.

### Third Step

A suggested maintenance factor is listed for each Gill luminaire (see Catalog page). This is an average factor and should be decreased in value if the maintenance conditions are exceptionally poor.

(a) If you wish to determine the number of luminaires to use to provide a pre-determined number of foot-candles, use this formula:

$$\begin{aligned} \text{LAMP LUMEN REQUIRED} &= \frac{\text{AREA (SQUARE FEET)} \times \text{FOOT-CANDLES}}{\text{UTILIZATION FACTOR} \times \text{MAINTENANCE FACTOR}} \\ \text{NUMBER OF LAMPS} &= \frac{\text{TOTAL LAMP LUMENS}}{\text{LUMENS PER LAMP (SEE TABLE BELOW)}} \\ \text{Number of Luminaires Required} &= \frac{\text{TOTAL NUMBER OF LAMPS}}{\text{NUMBER LAMPS PER LUMINAIRE}} \end{aligned}$$

### Final Step

(b) If you wish to determine the number of foot-candles resulting from a known number of lumens, use this formula:

$$\text{FOOT CANDLES} = \frac{\text{LAMP LUMENS} \times \text{UTILIZATION FACTOR} \times \text{M.F.}}{\text{AREA (SQUARE FEET)}}$$

FLUORESCENT			
LAMP	WATTS	COLOR	LUMENS
T-12	40	3500° white	2300
T-12	40	4500° white	2100
72" T-8 200 ma	38	3500° white	2250
72" T-8 300 ma	51	3500° white	2850
96" T-8 200 ma	51	3500° white	3050
96" T-8 300 ma	69	3500° white	3950
96" T-12 425 ma	75	4500° white	4574

INCANDESCENT		
LAMP	WATTS	LUMENS
I.F.	100	1630
I.F.	150	2600
I.F.	300	5650
I.F.	500	9950
I.F.	750	15,500
I.F.	1000	21,500



# GILL *index*

CATALOG NUMBER	PAGE NUMBER	CATALOG NUMBER	PAGE NUMBER	CATALOG NUMBER	PAGE NUMBER
1	32	720-P	53	9833-E	38
1-S	32	726	30, 33	9642-B	39
2	32	728	30, 34	9842-E	39
3	32	746	31, 34	9843-B	39
4	32	748	31, 34	9843-E	39
6	35	816-C	55	9852-B	40, 46
24	34	816-P	55	9852-E	40, 46
44	34	820-C	55	9853-B	40, 47
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SL-328-M	13, 33	6514	56	9880-S	43
SL-328½	14, 33	7010-C	57	9882-R	43
SL-328½-M	15, 33	7010-P	57	16110	52
344	18, 19, 33	7030-C	57	26160	52
344-M	20, 21, 33	7030-P	57	26180	52
344½	22, 23, 33	7040-C	57	26260	52
344½-M	24, 25, 33	7040-P	57	26280	52
SL-348	26, 33	7050-C	57	66110	50
SL-348-M	27, 33	7050-P	57	66160	50
SL-348½	28, 33	7060-C	57	66180	50, 51
SL-348½-M	29, 33	7060-P	57	66200	50
516-C	54	7070-C	57	66260	50
516-P	54	7070-P	57	66280	50
520-C	54	9802-E	36	66300	50
520-P	54	9802-S	36	SL-98028-B	37
715-C	53	9803-B	36	SL-98028-E	37
715-P	53	9803-E	36	SL-98528-B	41
718-C	53	9832-B	38, 45	SL-98528-E	41
718-P	53	9832-E	38, 45	Lighting Data	58, 59
720-C	53	9633-B	38		

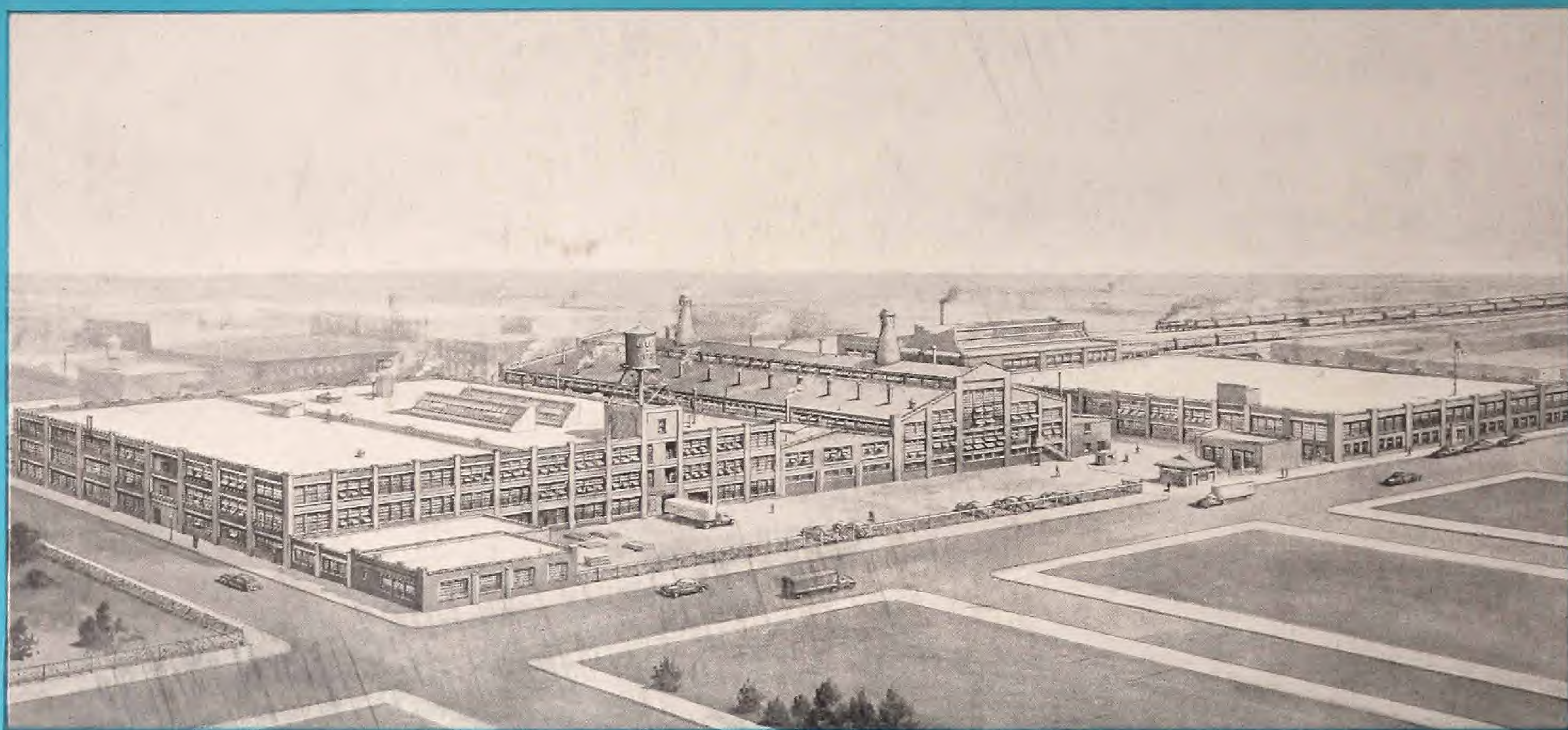


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CCA





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# GILL GLASS and FIXTURE COMPANY

established 1876

## PHILADELPHIA